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Document Status Record

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<td>Revision</td>
<td>4.1</td>
<td>Document name change. Added data dictionary for IEEE metadata fields (MARC record)</td>
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<td>17 October 2006</td>
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I Metadata Description

This document is a technical description of IEEE Publications content metadata records. It is intended for use by IEEE data customers. This includes customers who host IEEE metadata locally and those who link to IEEE Xplore via the metadata records. Customers of INSPEC can also use the URL information in the metadata records to link to IEEE content in IEEE Xplore.

1.1 Scope

This document refers to the content that is hosted on the IEEE Xplore website. It includes several classes of content:

- IEEE and IET copyrighted material published 1988 through the present.
- Legacy (pre-1988) data for selected publications that was added to the collections.
- Third party content such as SMPTE, IBM, MIT, etc.

All of the content hosted in IEEE Xplore is part of the IEEE/IET Electronic Library (IEL). Subset subscriptions are also available. This document is applicable to data customers who subscribe to the IEL or any other subsets.

Bibliographic metadata will be provided in XML format. Please refer to XML Documentation for more details. For the Data Delivery DTD (ieee_idams_exchange.dtd), please visit https://www.ieee.org/publications/services/services-resources.html#Data-distribution-from-IEEE

1.2 Backfiles

At the outset of a data license subscription, if the contract includes backfiles, customers will receive a shipment consisting of the backfile of content requested. The initial content sent will contain article records from the oldest content through the present. For subscribers who wish to host the PDF data locally, the initial shipment will be in USB/thumb drives. Our archives are encrypted and are based on the following directory structure:
1.3 Data Delivery Procedure

Files will be sent to data customers twice every week, which coincides with the update to IEEE Xplore. Content will be available from a secure IEEE FTP site. Customer login and password information will be provided after the contract has been signed. An email will be sent to customers notifying them that new content is ready for pickup at the FTP site. Folder structure of the update directory is included in this specification.

1.4 PDF Files

PDF files may be made available to customers who wish to host them locally. Alternatively, customers may choose to link to the PDF files on the IEEE Xplore website. Full-page images are created in Adobe PDF format, which are organized by article. Earlier PDFs have been created in Acrobat version 4.0 and the PDFs since 2005 have been created in Acrobat version 7.0. These are optimized for byte serving.
1.5 Publication Type and Groups of Metadata on FTP

IEEE Data is offered by publication type. Currently files are delivered pertaining to the following publication types:

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The customer will always receive the new content and deleted content. Depending on the subscription, updates to existing metadata is also available. Content delivery consists of the following groups of metadata:

1.5.1 New content
These are the newly published articles, accompanied with corresponding PDF, if included in the subscription (XML only or XML + PDF).

1.5.2 IEEE Updates
These are corrections or updates to existing metadata (XML only, no corresponding PDF).

1.5.3 Inspec Updates
These are Inspec citation added to existing IEEE metadata (XML only, no corresponding PDF).
1.5.4 Deleted Updates
These are the deleted material, which could be due to plagiarized content, duplicates or production errors. The volume is very small and insignificant. This feed is automatically added to the content which the user is subscribed to (e.g. If you are subscribed to IEEE conferences, you should automatically be subscribed to the deleted feed for IEEE conferences as well). It is best to handle the deleted updates first before the new content.

1.5.5 Extended Objects/ Multimedia
These are the ancillary material, which are present for select conference and journals articles for which the author submitted the additional content and are available as updates. These can be a presentation, executable program, source code, data, or similar material. If present, these files will be placed in an article folder, the name of which will correspond to the article PDF filename. Only subscribers that get IEEE Updates will receive this feed automatically.

1.5.6 Early Access Articles
These are new content made available in advance of the final electronic or print versions, resulting from IEEE's Preprint or Rapid Post processes. This feed will include both new and updated articles. The PDF and XML will always be supplied together. The volume number will always be ‘PP’ ad the issue will always be ‘99’ (pp:99). Once the early access article becomes a regular article, this will then be part of the IEEE periodicals feed. At this time, the issue will be supplied with a volume and issue number. The customer will need to replace the XML metadata once it becomes part of the regular feed. Only the issue amsid will change; publication and article amsid will remain the same.

Below is an example:
Early Access Article XML Metadata: /10/678543/0876456.xml
Published Article XML Metadata: 10/854321/0876456.xml
In this case, the user will have to replace "/10/678543/876456.xml" with "10/854321/876456.xml" based on the article number "876456".

Once logged in to the FTP account, under each folder (named after metadata group and publication type) will be the usual week# directory. Under the week # directory there will be zip files. Each zip file pertains to
a publication title. Zip files are named as Publication AMS ID.zip. Sample directory structure for a newly published periodical is illustrated below:

The zip file will contain folders for issues and a manifest file. Issue folders are named by Issue ID. The manifest file will contain information about the publication such as the ISSN and/or ISBN, publication title, publication date, article count and filename. Under each issue folder, XML files and PDF files (if subscribed to) for each article will be present. Both XML and PDF have the same filename which is Article AMS ID. For example, files will be named 12355888.xml and 12355888.pdf. Article AMS ID is a unique ID that IEEE generates for the article. Sample folder structure is shown below:
1.6 Naming Convention for Article PDFs and Linking to IEEE Xplore

Article PDFs are named with the Article AMS ID <amsid>. For subscribers linking to IEEE Xplore (with the proper credentials), the record syntax for constructing the url is as follows:

https://ieeexplore.ieee.org/document/<article><articleinfo><amsid>
https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7167233
https://ieeexplore.ieee.org/document/7167233

1.7 FTP Updates

Updates to the initial shipment are issued on a twice weekly basis via FTP with accompanying email alerts. A directory listing and week number comprising an update will be part of the email notification.

Updates to existing metadata records are sent in the following situations:
• The record has been upgraded to a full INSPEC citation record.
• Maintenance has been done on the record.
• Extended object/ multimedia is available.

When there is an INSPEC update or maintenance has been done on the record, only the existing metadata record will need to be replaced in your system with the updated record.

1.8 Contact Information

Contact IEEE Customer Service as follows:

Email: onlinesupport@ieee.org
Telephone:
+1 800 678 4333 (U.S. and Canada)
+1 732 981 0060 (worldwide)
II XML Documentation

This section contains a full description of the sub-field tags within the IEEE data. Note that not all sub-fields will be present in every record.

Each XML metadata contains three groups in the following hierarchical structure:

- Publication
- Volume
- Article

2 Publication <publication>

Definition: This section contains all the Publication level attributes.

2.1 Publication Full Title <title>

Definition: Full (original) title of a publication or conference.

Data Type: string

Length: 255

Example: <title>IEEE Transactions on Biomedical Engineering</title>

2.2 Publication Abbreviated Title <titleabbrev>

Definition: Abbreviated title of a publication or conference.

Data Type: string

Length: 255


2.3 Publication Normalized Title <normtitle>

Definition: Normalized title of a publication or conference. A ‘normalized’ title means that the title is in a specific format: subject matter, followed by year and/or IEEE, and other words.

Data Type: string

Length: 255

Example: <normtitle>Biomedical Engineering, IEEE Transactions on</normtitle>

2.4 Publication Parent Title <parent_title>

Definition: The title of the parent which the publication belongs to.

Data Type: string
2.5 Publication Conference Name <conference_name>

Definition: The name of the meeting (conference) and not the proceeding title.
Data type: string
Length: 500
Example: <conference_name>2004 Automation Conference</conference_name>

2.6 Publication Standards Family Title <standardsfamilytitle>

Definition: Display title of the standards family on Xplore. This is for internal use only.
Data type: string
Length: 150
Example: <standardsfamilytitle>IEEE Standard for All-Dielectric Self-Supporting Fiber Optic Cable</standardsfamilytitle>

2.7 Publication Information <publicationinfo>

Definition: Information about the publication.

2.7.1 Publication IDAMS1 ID <idamsid>

Definition: System generated unique ID automatically assigned at the publication level when import is run.
Data type: string
Length: 16
Example: <idamsid>0b0000798000a06a</idamsid>

2.7.2 Publication DOI <publicationdoi>

Definition: The Digital Object Identifier (DOI) number assigned to the publication. The DOI is registered with Crossref to provide a single unique global identifier for the publication.
Data type: string
Length: 50
Example: <publicationdoi>10.1109/LSP.97</publicationdoi>

2.7.3 Publication IEEE Catalog Number <invpartnumber>

Definition: IEEE catalog number of a publication.

---

1 IDAMS- IEEE Digital Asset Management System
2.7.4 **Publication IEEE Standard Number <stdnumber>**

*Definition:* IEEE /ANSI number of a publication specifying an IEEE standard.
*Data type:* string
*Length:* 100
*Example:* `<stdnumber>IEEE Std 1488-2000</stdnumber>`

2.7.5 **Publication Type <publicationtype>**

*Definition:* General type of a publication.
*Data type:* string
*Length:* 50
*Enumerated value list:* Periodical, Conference, Standard
*Example:* `<publicationtype>Periodical</publicationtype>`

2.7.6 **Publication Subtype <publicationsubtype>**

*Definition:* Specific type of a publication; indicates whether the publication is an IEEE publication, an IEE publication or another type.
*Data type:* string
*Length:* 50
*Example:* `<publicationsubtype>IEEE Transaction</publicationsubtype>`

2.7.7 **Publication Standard Subtype <standard_subtype>**

*Definition:* The subtype of a standard document. This is only present if the publication subtype is “Standard Docs”.
*Data type:* string
*Length:* 32
*Enumerated value list:* IEEE Standard, SMPTE Standard, SMPTE Amendment, SMPTE Engineering Guideline, SMPTE Overview Documents, SMPTE Recommended Practice
Example: <standard_subtype> IEEE Standard</standard_subtype>

2.7.8 Publication IEEE Abbreviation <ieeeabbrev>

Definition: The IEEE abbreviation for a journal or conference. This is used in file name specification for all content imported from the journal or conference.

Data type: string
Length: 20
Example: <ieeeabbrev>T-BME</ieeeabbrev>

2.7.9 Publication Conference Acronym <acronym>

Definition: Type of acronym used for a conference or journal. 

Attribute: acronymtype

Enumerated value list: CONFERENCE_ACRONYM
  Definition: The acronym used by the conference, which may be different from the IEEE assigned acronym.
  Data type: string
  Length: 50
  Example: <acronym acronymtype="CONFERENCE_ACRONYM">ESSCIR</acronym>

Enumerated value list: PIMS
  Definition: The PIMS acronym for a journal.
  Data type: string
  Length: 40
  Example: <acronym acronymtype="PIMS">TBME</acronym>

2.7.10 Publication Status <pubstatus>

Definition: The current status of a publication or conference.

Data type: string
Length: 20
Enumerated value list: Active, Inactive
Example: <pubstatus>Active</pubstatus>

2.7.11 Publication Open Access <publicationopenaccess>

Definition: A flag that indicates whether all the research articles in the publication are available for free or not.

Data type: boolean
Enumerated value list: T= True, F= False
Example: <publicationopenaccess>T</publicationopenaccess>

---

2 PIMS- Internal IEEE journal tracking database
2.7.12 Publication Standard ID <standard_id>

*Definition:* The unique key for specifying an IEEE standard used for tracking purposes. This is for internal use only.

*Data type:* integer  
*Length:* 15  
*Example:* `<standard_id>12346746</standard_id>`

2.7.13 Publication Standard Associated PU Number <associated_punumber>

*Definition:* The Xplore PU number for the Active standard which the Redline standard is associated with. This is for internal use only.

*Data type:* string  
*Length:* 12  
*Example:* `<associated_punumber>6145279</associated_punumber>`

2.7.14 Publication Standard Status <standard_status>

*Definition:* The current status of a standard.

*Data type:* integer  
*Length:* 32  
*Enumerated value list:* Active, Inactive, Superseded  
*Example:* `<standard_status>Active</standard_status>`

2.7.15 Publication Standard Modifier Set <standardmodifierset>

*Definition:* Information about publication standard modifier.

2.7.15.1 Publication Standard Modifier <standardmodifier>

*Definition:* The current modifier that is linked to the standard status.

*Data type:* string  
*Length:* 100  
*Enumerated value list:* Approved, Draft, Unapproved, Amended, Withdrawn, Redline, Reserved, Stable, Under Review  
*Example:* `<standardmodifier>Approved</standardmodifier>`

2.7.16 Publication Standard Bundle <standard_bundle>

*Definition:* Information about the standard bundle. This is for internal use only.

2.7.16.1 Publication Standard Bundle Name <bundle_name>

*Definition:* The name of the grouping of standards to be sold.
Data type: string  
Length: 400  
Example: &lt;bundle_name&gt;American National Standard Methods of Measurement of the Electromagnetic and Operational Compatibility of Unlicensed Personal Communications Services (UPCS) Devices - Redline&lt;/bundle_name&gt;

2.7.16.2 Publication Standard Bundle Type &lt;bundle_type&gt;  
Definition: The name of the standards bundle can be of type “Mandatory” which requires a base standard or “Suggested” which does not require a base standard.  
Data type: string  
Length: 20  
Enumerated value list: Mandatory, Suggested  
Example: &lt;bundle_type&gt;Suggested&lt;/bundle_type&gt;

2.7.16.3 Publication Base Standard Product Number &lt;base_standard_product_number&gt;  
Definition: The product number that is required if the standard bundle type is “Mandatory”.  
Data type: string  
Length: 25  
Example: &lt;base_standard_product_number&gt;STDSU95983&lt;/base_standard_product_number&gt;

2.7.16.4 Publication Standard Bundle Product Number &lt;bundle_product_number&gt;  
Definition: The product number of the standard bundle.  
Data type: string  
Length: 25  
Example: &lt;bundle_product_number&gt;STDRL95983&lt;/bundle_product_number&gt;

2.7.17 Publication Standard Relationship &lt;standard_relationship&gt;  
Definition: The relationship for the standard.  
Attribute: prodnumber  
Definition: The product number for the related standard.  
Data type: string  
Length: 30  
Attribute: relationship_date  
Definition: The date that the relationship with other standard was established.  
Attribute: type
Definition: The relationship for the standard with 12 type values.
Data type: string
Length: 2
Enumerated value list: See table below

Example: <standard_relationship prodnum="23565" relationship_date="12/31/1969 7:00:00 PM" type="V">4509</standard_relationship>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Administratively Withdrawn</td>
</tr>
<tr>
<td>C</td>
<td>Corrigendum to</td>
</tr>
<tr>
<td>D</td>
<td>Stabilized</td>
</tr>
<tr>
<td>E</td>
<td>An Errata is available</td>
</tr>
<tr>
<td>F</td>
<td>Reaffirmed</td>
</tr>
<tr>
<td>I</td>
<td>An interpretation is available</td>
</tr>
<tr>
<td>O</td>
<td>Adoption of</td>
</tr>
<tr>
<td>P</td>
<td>Supplement to</td>
</tr>
<tr>
<td>R</td>
<td>Replaced by</td>
</tr>
<tr>
<td>S</td>
<td>Superseded by</td>
</tr>
<tr>
<td>T</td>
<td>Amendment to</td>
</tr>
<tr>
<td>V</td>
<td>Revision of</td>
</tr>
<tr>
<td>W</td>
<td>Withdrawn</td>
</tr>
<tr>
<td>X</td>
<td>Active: Reserved</td>
</tr>
<tr>
<td>Z</td>
<td>Inactive: Reserved</td>
</tr>
<tr>
<td>B</td>
<td>Inactive: Withdrawn</td>
</tr>
<tr>
<td>N</td>
<td>Translation of</td>
</tr>
<tr>
<td>G</td>
<td>Adopted by</td>
</tr>
</tbody>
</table>

2.7.18 Publication Package Member Set <packagememberset>

Definition: Information about publication package member set.

2.7.18.1 Publication Output Package Member <packagemember>

Definition: The package membership of a journal or conference, used for grouping publications into specific products sold through Xplore. A publication must belong to at least one output package, but can belong to multiple output packages.
Data type: string
Length: 20
Enumerated value list: BTSDL, APSDL, CASDL, CESDL, CIP, CPES, CSCDL, CSDL, CSMDL, EDMCDL, EMBS, EMCSDL, GRSDL, IACDL, IELL, ITEL, ITSCDL, LEOS, MTTSDL, NPSSDL, None, OESDL, PELDL, PES, PESCDL, POP, POP2005,
POPALL, POPALL2005, RASDL, RSCDL, SMCSDL, SSCS, STDSELECT, UFFCCDL

Example: <packagemember>POPALL</packagemember>

2.7.19 Publication ISBN <isbn>

*Definition*: The standard ISBN (International Standard Book Number) for a publication, if available.

*Data type*: string

*Length*: 30

*Attribute*: mediatype

*Definition*: Type of publication media that the ISBN number grouped with the media type applies to.

*Data type*: string

*Length*: 20

*Enumerated value list*: Paper, CD, Online, Microfiche, Electronic, DVD, USB, POD

*Attribute*: isbntype

*Definition*: This value describes which version of the ISBN number the ISBN record contains. This could be ISBN-13 (New) 13 digit ISBN or ISBN-10 (Historical) 10 digit ISBN.

*Data type*: string

*Length*: 20

*Enumerated value list*: New, Historical

Example: <isbn mediatype="POD" isbntype="Historical">0-7803-9137-3</isbn>

2.7.20 Publication ISSN <issn>

*Definition*: The standard ISSN (International Standard Serial Number) for a publication, if available.

*Data type*: string

*Length*: 20

*Attribute*: mediatype

*Definition*: Type of publication media that the ISSN number grouped with the media type applies to.

*Enumerated value list*: CD, DVD, Electronic, Microfiche, Online, POD, Paper, USB

*Data type*: string

*Length*: 20

*Example*: <issn mediatype="Paper">0018-9294</issn>
2.7.21 Publication BMS Product Number <bms_product_number>

*Definition:* The BMS product number for the publication.

*Data type:* string

*Length:* 20

*Attribute:* mediatype

*Definition:* Type of publication media that the BMS product number grouped with the media type applies to.

*Enumerated value list:* Paper, CD, Online, Microfiche, Electronic, DVD, USB, POD

*Example:* `<bms_product_number mediatype="Electronic">CFP1202R-ART</bms_product_number>`

2.7.22 Publication Library of Congress Control Number <lccn>

*Definition:* The control number for the Library of Congress.

*Data type:* string

*Length:* 50

*Example:* `<lccn>C123499999</lccn>`

2.7.23 Publication TAB Conference Control Number <tcn>

*Definition:* The TAB assigned conference number. This will not be part of the XML output. This is for internal use only.

*Data type:* string

*Length:* 20

*Example:* `<tcn>456667-23</tcn>`

2.7.24 Publication Keyword Set <keywordset>

*Definition:* Information about the set of publication keywords.

*Attribute:* keywordtype

*Enumerated value list:* CPD

*Data type:* string

*Length:* 500

*Example:*

```xml
<keywordset keywordtype="CPD">
  <keyword>
    <keywordterm>multimedia</keywordterm>
  </keyword>
  <keyword>
    <keywordterm>information</keywordterm>
  </keyword>
  <keyword>
    <keywordterm>networking</keywordterm>
  </keyword>
</keywordset>
```

---

3 TAB- Technical Activities Board
2.7.25 Publication IEEE-Sponsored Flag
<publication_ieee_sponsored>
Definition: A flag that indicates whether or not the publication/conference is sponsored by IEEE.
Data type: string
Length: 50
Enumerated value List: Yes, No
Example: <publication_ieee_sponsored>No</publication_ieee_sponsored>

2.7.26 Publication Sponsor <pubsponsor>
Definition: Information about the sponsor for the publication.

2.7.26.1 Publication Sponsoring Society <society>
Definition: The technical society that is the sponsor of a journal or conference. Multiple technical societies can sponsor either a journal or a conference. Journal sponsors typically do not change over time, but conference sponsors may frequently change.
Data type: string
Length: 200
Example: <pubsponsor>
  <society>Computer Society</society>
</pubsponsor>

2.7.27 Publication Standard Family <standard_family>
Definition: The parent (root standard) of a given standard. This is for internal use only.
Data type: string
Length: 150
Example: <standard_family>1044</standard_family>
2.7.28 Publication Standard Root <standard_root>

*Definition:* The root of the standard.

*Data type:* string

*Length:* 100

*Example:* `<standard_root>432</standard_root>`

2.7.29 Publication Standard Root Title <standard_root_title>

*Definition:* The title of the root standard.

*Data type:* string

*Length:* 400

*Example:* `<standard_root_title>D-Cinema Signal Processing</standard_root_title>`

2.7.30 Publication Standard Package Set <standardpackageset>

*Definition:* Information about publication standard package set.

2.7.30.1 Publication Standard Package <standard_package>

*Definition:* The package membership of a standard, used for standards products sold through Xplore. A standard must belong to at least one output package, but can belong to multiple output packages.

*Data type:* string

*Length:* 500

*Enumerated value list:* All Inclusive, All Inclusive Information Technology, All Inclusive Power and Energy, All Inclusive Telecommunications, Aerospace Electronics, ArcFlash Hazard, BusArchitecture/Microprocessor/Microcomputer, ColorBooks and Industrial Power Pack, Communications, Design Automation, Electric Machinery, Electromagnetic Compatibility, etc.

*Example:* `<standardpackageset>
  <standard_package>Software</standard_package>
  <standard_package>Security</standard_package>
</standardpackageset>`

2.7.31 Publication Standard Topic Set <standardtopicset>

*Definition:* Information about publication standard topic set.

2.7.31.1 Publication Standard Topic <standard_topic>

*Definition:* The topic of a standard.

*Data type:* string

*Length:* 200

*Example:* `<standardtopicset>`
2.7.32 Publication ICS Codes <icscodes>

Definition: Codes used for storing ICS (International Classification for Standard) that come in the form of a number and a string value.

2.7.32.1 Publication Code Term <code_term>

Definition: The term for ICS code.
Data type: string
Length: 255
Attribute: codenum
Definition: The string value for the ICS code.
Data type: string
Length: 50
Example: <icscodes>
<code_term codenum="33.160.40">Video systems</code_term>
<code_term codenum="33.170">Television broadcasting</code_term>
</icscodes>

2.7.33 Publication Sponsoring Committee Set <pubsponsoringcommitteeset>

Definition: Information about the set of sponsoring committee.

2.7.33.1 Publication Sponsoring Committee <pubsponsoringcommittee>

Definition: The committee that was responsible for sponsoring a standard.
Data type: string
Length: 500
Example: <pubsponsoringcommittee>Transformers Committee of the IEEE Power Engineering Society</pubsponsoringcommittee>

2.7.34 Publication Topical Browse Set <pubtopicalbrowseset>

Definition: Information about the set of topical browse for the publication.

2.7.34.1 Publication Topical Browse <pubtopicalbrowse>

Definition: Subject terms assigned to each publication used by Xplore 3.0 for topical browsing. There are 16 values currently.
Data type: string
Length: 500

Example: <pubtopicalbrowseset>
   <pubtopicalbrowse>Aerospace</pubtopicalbrowse>
   <pubtopicalbrowse>Nuclear Engineering</pubtopicalbrowse>
</pubtopicalbrowseset>

2.7.35 Publication Copyright Group <copyrightgroup>
Definition: Information about publication copyright group.

2.7.35.1 Publication Copyright <copyright>
Definition: This consists of pairs of values for the copyright holder and copyright year. Publications may have multiple copyright value pairs.

2.7.35.1.1 Publication Copyright Year <year>
Definition: The year or years that a publication was copyrighted.
Data type: string
Length: 10
Example: <year>2005</year>

2.7.35.1.2 Publication Copyright Holder <holder>
Definition: The copyright holder for a publication or conference.
Data type: string
Length: 300
Example: <holder>IEEE</holder>

2.7.36 Publication Publisher <publisher>
Definition: Information about the publisher of a publication.

2.7.36.1 Publisher Name <publishernname>
Definition: The name of the publisher of a publication. This is used in conjunction with the publisher’s location and address.
Data type: string
Length: 100
Example: <publishername>IEEE</publishername>

2.7.36.2 Publication Publisher Location <publisherloc>
Definition: The location of the publisher of a publication.
Data type: string
Length: 200
Example: <publisherloc>Piscataway, NJ, USA</publisherloc>

2.7.36.3 Publication Publisher Address <address>
Definition: The address of the publication publisher. If available, this includes the following:
<street> street
<otheraddr> other address
<city> city
<state> state
<country> country
<postcode> zipcode

Example:
<publisher>
  <publishername>IEEE</publishername>
  <address>
    <country>USA</country>
  </address>
</publisher>

2.7.37 Publication Approval Date <PubApprovalDate>
Definition: The date that the standard was approved.
Data type: string
Length: 300
Example: <PubApprovalDate>5 Dec. 2001</PubApprovalDate>

2.7.38 Publication Hold Status <holdstatus>
Definition: A flag that indicates whether the publication should be withheld from being published to data clients. This is typically used to indicate that a conference is waiting for publishing approval from TAB.
Data type: string
Length: 30
Enumerated value list: Hold, Publish
Example: <holdstatus>Publish</holdstatus>
2.7.39 Publication Conference Group <confgroup>

Definition: Information about the publication conference group.

2.7.39.1 Publication Conference Title <conftitle>

Definition: The name of the conference.
Data type: string
Length: 500
Example: <conftitle>2005 International Conference on Control and Automation (ICCA)</conftitle>

2.7.39.2 Publication Conference Date <confdate>

Definition: The year, month and day that the conference started and ended.
Attribute: confdatetype
Enumerated value list: Start, End
Example: <confdate confdatetype="Start">
   <year>2005</year>
   <month/>
   <day>29</day></confdate>
   <confdate confdatetype="End">
   <year>2005</year>
   <month/>
   <day>29</day></confdate>

2.7.39.3 Publication Conference Location <conflocation>

Definition: The location where the conference was held.
Data type: string
Length: 200
Example: <conflocation>Budapest, Hungary</conflocation>

2.7.39.4 Publication Conference Country <confcountry>

Definition: The country that the conference was held.
Data type: string
Length: 50
Example: <country>Hungary</country>

2.7.39.5 Publication Conference Type <conference_type>

Definition: The type of conference and sponsorship information provided by TAB.
Data type: string
Length: 50
Enumerated Value List: See table

<table>
<thead>
<tr>
<th>S</th>
<th>Conf with IEEE Financial Sponsor</th>
</tr>
</thead>
<tbody>
<tr>
<td>T</td>
<td>Conf without IEEE Financial Sponsor (only IEEE Technical Sponsor(s))</td>
</tr>
<tr>
<td>E</td>
<td>Non IEEE Sponsored Conference</td>
</tr>
<tr>
<td>B</td>
<td>Board Meeting</td>
</tr>
<tr>
<td>C</td>
<td>Committee Meeting</td>
</tr>
<tr>
<td>N/A</td>
<td>If a sponsor is not found in our sponsor database, the conference temporarily set to N/A until the Operations staff resolves the sponsor issue</td>
</tr>
</tbody>
</table>

Example: `<conference_type>S</conference_type>`

2.7.39.6 Publication DOI Permission `<doi_permission>`

Definition: A flag that indicates whether the publication is permitted to be deposited to Crossref or not. This is for internal use only.

Data type: boolean

Enumerated Value List: T, F

Example: `<doi_permission>T</doi_permission>`

2.7.40 Publication AMS ID `<amsid>`

Definition: The unique key for the publication's record in the data converted from the IEEE AMS database.

Data type: string

Length: 50

Example: `<amsid>10234</amsid>`

2.7.41 Publication CODEN `<coden>`

Definition: Six character code for a publication.

Data type: string

Length: 6

Example: `<coden>IEBEAX</coden>`

3 Volume `<volume>`

Definition: This section contains all the Volume attributes.

3.1 Volume Information `<volumeinfo>`

Definition: Information about the volume.
3.1.1 Volume Publication Year <year>

Definition: The publication year of the volume.
Data type: integer
Example: <year>2005</year>

3.1.2 Volume Number <volumenum>

Definition: The optional volume number of a volume for a journal or other publication; can sometimes contain additional information aside from just a number.
Data type: string
Length: 20
Example: <volumenum>52</volumenum>

3.1.3 Volume IDAMS ID <idamsid>

Definition: System generated unique ID automatically assigned at the volume level when import is run.
Data type: string
Length: 16
Example: <idamsid>0b0000798000b2f9</idamsid>

3.1.4 Volume Status <volumestatus>

Definition: The current status of a publication volume.
Data type: string
Length: 50
Enumerated value list: Active, Inactive
Example: <volumestatus>Active</volumestatus>

3.1.5 Volume Number of Issues <numissues>

Definition: The number of issues present (publication frequency) for a particular volume of a publication. If the issues for a volume are not complete (volume is current and in progress), the number of issues will be incremented over time.
Data type: integer
Length: 10
Example: <numissues>12</numissues>

3.1.6 Volume Issue <issue>

Definition: Information about volume issue.
3.1.6.1 Volume Issue Number <issuenum>

Definition: An issue number that belongs to the volume. Multiple issue number records are allowed, to specify the complete list of issues that were published for a volume.

Data type: string
Length: 50
Example: <issuenum>12</issuenum>

3.1.6.2 Volume Issue Part <issuepart>

Definition: The issue part number of the volume.

Data type: string
Length: 50
Example: <issuepart>1</issuepart>

3.1.6.3 Volume Issue AMS Issue ID <amsid>

Definition: The list of primary keys for issue records present in the AMS database relating to the list of issues present for this volume in IDAMS.

Data type: string
Length: 50
Example: <amsid>18517</amsid>

3.1.6.4 Volume Issue Status <issuestatus>

Definition: Contains the processing status for the entire issue; values can be Open or Complete depending on whether there are still articles being processed to complete the full issue or not.

Data type: string
Length: 50
Enumerated value list: Open, Complete
Example: <issuestatus>Complete</issuestatus>

3.1.6.5 Volume Issue Complete Date <issue_complete_date>

Definition: The date that the issue was completed.

Example: <issue_complete_date>
<year>2006</year>
<month>6</month>
<day>21</day>
</issue_complete_date>
3.1.6.6 Volume Issue Number of Pages <numpages>

*Definition:* The number of pages in a conference proceedings or a standard publication.

*Data type:* string

*Length:* 10

*Example:* `<numpages>vi+37</numpages>`

3.1.6.7 Volume Issue Special Issue <specialissue>

*Definition:* Special topic for an issue.

*Data type:* string

*Length:* 2000

3.1.6.8 Volume Issue Filename <filename>

*Definition:* The current name of the issue stored in our IDAMS repository.

*Attribute:* docpartition

*Definition:* The partition where the file resides. This is for internal use only.

*Data type:* string

*Length:* 16

*Attribute:* filetype

*Definition:* The name of the PDF for the issue.

*Data type:* string

*Length:* 500

*Enumerated value list:* IssuePDF

*Example:* `<filename docpartition="7" filetype="IssuePDF"="11012721.pdf"/></filename>`

4 Article <article>

*Definition:* This section contains all the article attributes.

4.1 Article Title <title>

*Definition:* Full (original) title of an article.

*Data type:* string

*Length:* 2000

*Example:* `<title>IEEE Trial-Use Standard for Message Set Template for Intelligent Transportation Systems</title>`

4.2 Article Information <articleinfo>

*Definition:* Information about the article.
4.2.1 Article Sequence Number in Publication <articleseqnum>

Definition: Contains the sequence number of the article relative to the other articles abstracted in a particular publication.
Data type: integer
Length: 100
Example: <articleseqnum>1</articleseqnum>

4.2.2 Article Digital Object Identifier <articledoi>

Definition: The Digital Object Identifier (DOI) number assigned to the article. The DOI is registered with Crossref to provide a single unique global identifier for the article.
Data type: string
Length: 100
Example: <articledoi>10.1109/TBME.2005.860856</articledoi>

4.2.3 Article Pub Med ID <articlepubmedid>

Definition: The Pubmed ID for the article. It is a unique number assigned by PubMed to each biomedical journal article.
Data type: string
Length: 300
Example: <articlepubmedid>18390331</articlepubmedid>

4.2.4 Article IDAMS ID <idamsid>

Definition: System generated unique ID automatically assigned at the publication level when import is run.
Data type: string
Length: 16
Example: <idamsid>0b0000798000b2fb</idamsid>

4.2.5 Article Status <articlestatus>

Definition: The current status of an article.
Data type: string
Length: 20
Enumerated value list: Active, Inactive
Example: <articlestatus>Active</articlestatus>

4.2.6 Article Content Type <contenttype>

Definition: Identifies the editorial content of an article.
Data type: string
Length: 40
Enumerated value list: Please see appendix for list of content types
Example: <contenttype>orig-research</contenttype>

4.2.7 Article Open Access <articleopenaccess>
Definition: A flag that indicates whether the article is available for free or not.
Data type: boolean
Enumerated Value List: T= True, F= False
Attribute: end_date
   Definition: The date when the article ended open access.
Attribute: start_date
   Definition: The date when the article became open access.
Example: <articleopenaccess end_date="4/20/2016" start_date="4/20/2015">T</articleopenaccess>

4.2.8 Article Show Flag <articleshowflag>
Definition: A flag that indicates whether the author presented in-person at the conference or not. This is for internal use only.
Data type: boolean
Enumerated Value List: T= True, F= False
Example: <articleshowflag>T</articleshowflag>

4.2.9 Article Plagiarized Flag <articleplagiarizedflag>
Definition: A flag that indicates whether or not the article is plagiarized. This is for internal use only.
Data type: boolean
Enumerated Value List: T= True, F= False
Example: <articleplagiarizedflag>F</articleplagiarizedflag>

4.2.10 Article No DOI Flag <articlenodoiflag>
Definition: A flag that indicates whether or not article DOIs will be assigned. This is for internal use only.
Data type: boolean
Enumerated Value List: T= True, F= False
Example: <articlenodoiflag>F</articlenodoiflag>

4.2.11 Article Scope/Quality <article_quality>
Definition: A flag that indicates the scope/quality of the conference article. This is for internal use only.
Data type: string
Length: 5
4.2.12 Article Cover Image Flag <articlecoverimageflag>

Definition: A flag that indicates whether an article contains a cover image or not. This is for internal use only.

Data type: boolean

Enumerated Value List: T= True, F= False

Example: <articlecoverimageflag>T</articlecoverimageflag>

4.2.13 Article CS HTML Flag <csarticlehtmlflag>

Definition: A flag that indicates whether or not the article has HTML in CSDL. This is used only by Computer Society.

Data type: boolean

Enumerated Value List: T= True, F= False

Example: <csarticlehtmlflag>T</csarticlehtmlflag>

4.2.14 Article Reference Flag <articlereferenceflag>

Definition: A flag that indicates whether or not an article has references. This is for internal use only.

Data type: boolean

Enumerated Value List: T= True, F= False

Example: <articlereferenceflag>F</articlereferenceflag>

4.2.15 Article Peer Review Flag <articlereferenceflag>

Definition: A flag that indicates whether or not an article has been peer reviewed.

Data type: boolean

Enumerated Value List: T= True, F= False

Example: <articlereferenceflag>F</articlereferenceflag>

4.2.16 Article Free To Read <articlefreetoread>

Definition: This indicates if an article is available for free on IEEE Xplore.

Data type: string

Enumerated Value List: PROMO = free promotion period, DOA= free for delayed open access

Attribute: start_date

Definition: The date when the article is available for free to read.

Attribute: end_date
**Definition:** The date when the article is no longer for free to read.

**Example:**  

4.2.17 **Article Hold Status <holdstatus>**

*Definition:* The current status of an article. This is for internal use only.

*Data type:* string  
*Length:* 20  
*Enumerated value list:* Publish, Preprint, Rapid Post, Skeletal, Conference  

**Example:**  
<holdstatus>Publish</holdstatus>

4.2.18 **Article Issue Number <issuenum>**

*Definition:* The issue number of the journal in which the article was originally published, if available.

*Data type:* string  
*Length:* 50  

**Example:**  
<issuenum>12</issuenum>

4.2.19 **Article Issue Part <issuepart>**

*Definition:* The issue part number of the issue where the article was originally published if the issue was published in more than one part. If the issue was published in one part, this attribute will be left null.

*Data type:* string  
*Length:* 50  

**Example:**  
<issuepart>2</issuepart>

4.2.20 **Article Issue Title <articleissuetitle>**

*Definition:* Theme or special title of the journal.

*Data type:* string  
*Length:* 2000

4.2.21 **Article Issue Subtitle <articleissuesubtitle>**

*Definition:* The subtitle of the issue.

*Data type:* string  
*Length:* 2000

4.2.22 **Article Issue Summary <articleissuesummary>**

*Definition:* Short description of an issue.

*Data type:* string
Length: 4000
Example: `<articleissuesummary>Special issue on phased-array technology </articleissuesummary>`

### 4.2.23 Article Copyright `<articlecopyright>`

**Definition:** Copyright for the article.
**Data type:** string
**Length:** 50
**Attribute:** holderisieee
  **Definition:** Specifies whether or not the IEEE is the copyright holder for the article.
  **Data type:** string
  **Length:** 50
  **Enumerated value List:** Yes, No
**Attribute:** year
  **Definition:** Specifies the copyright year for the article.
  **Data type:** integer
**Example:** `<articlecopyright holderisieee="Yes" year="2014">IEEE</articlecopyright>`

### 4.2.24 Article Copyright Statement `<article_copyright_statement>`

**Definition:** The copyright statement for an article.
**Data type:** string
**Length:** 250
**Example:** `<article_copyright_statement>Copyright © 1921 by the Society of Motion Picture and Television Engineers, Inc.</article_copyright_statement>`

### 4.2.25 Article License `<articlelicense>`

**Definition:** The license of an article.
**Data type:** string
**Length:** 50
**Enumerated Value List:** CCBY, OAPA, Open Access, Traditional
**Example:** `<articlelicense>CCBY</articlelicense>`

### 4.2.26 Article License URI `<article_license_uri>`

**Definition:** The URI for license of the article.
**Data type:** string
**Length:** 255
**Example:** `<article_license_uri>https://www.smpte.org/subscribe</article_license_uri>`

### 4.2.27 Article abstract `<abstract>`

**Definition:** Contains the abstract for the article.
Data type: string  
Length: 2000  
Attribute: abstracttype  
Definition: Type of article abstract.  
Enumerated value list: Regular  
Definition: Contains the primary (short) abstract for the article.  
Example: <abstract abstracttype="Regular">In this paper, expression methods of fuzzy dynamical model on discrete system are presented, based on which a kind of design method on fuzzy state feedback controller is also given and its stability is discussed. In addition, a kind of design method on fuzzy state observer is also given and its stability is discussed.</abstract>  
Enumerated value list: Long  
Definition: Contains the complete (long version) abstract for the article.  
Example: <abstract abstracttype="Long">A novel algorithm for high-precision edge location based on human visual properties is proposed considering characteristics of cannon barrel images, which improves the observation effect of spying bore images and diminishes the target image ambiguity caused by background and noise. The variable gray scale area method is applied according to the image feature diversity between the target and background/noise.</abstract>  
Enumerated value list: Violation  
Definition: Contains the abstract that should be displayed if a notice of violation is filed against a published article.  
Example: <abstract abstracttype="Violation">Notice of Violation of IEEE Publication Principles</BR>Internal model control based on locally linear model tree (LOLIMOT) model with application to a pH neutralization process.</abstract>  
Enumerated value list: Standard  
Definition: Contains the full text of the abstract for IEEE/ANSI standards.  
Example: <abstract abstracttype="Standard">The expanding use of digital communications among subsystems of the transportation infrastructure has spawned the development of message sets for the communications between these subsystems. A format for Intelligent Transportation System (ITS) message sets, including common terms (e.g., object identifier), as well as attributes necessary to document ITS data messages, is addressed in this standard.</abstract>  

4.2.28 Article Standard Scope <articlestdscope>  
Definition: The scope of the standard.  
Data type: string  
Length: 2000
Example: This guideline specifies the purpose, format, and usage of a television picture monitor alignment color bar test signal with chroma set and black set signals.

4.2.29 Article Standard Purpose <articlestdpurpose>

Definition: The purpose of the standard.
Data type: string
Length: 2000
Example: This guideline describes three feasible examples of mechanical designs and test conditions for achieving the record dimensions specified in SMPTE 224M. The parameters are for reference purposes only.

4.2.30 Article Impact Statement <articleimpactstatement>

Definition: The description of the importance of the paper and how it compares to existing understanding of phenomenon or to existing devices, systems, or applications. The impact statement makes clear how the paper advances knowledge in a significant way.
Data type: string
Length: 1000
Example: We report a novel, inexpensive, and real-time non-invasive wearable optical sensor prototype to determine the glucose level of human blood. This sensor is unique, low-cost, and robust and can monitor glucose in the blood in real time. It has significant impact on personal health monitoring, in particular, on diabetic patients, as well as on non-patients, to prevent them from becoming diabetic. To the best of our knowledge, there is no such device reported in the literature.

4.2.31 Article Visionary Statement <articlevisionarystatement>

Definition: The statement is designed for seasoned researchers or technical committees to share their visions of significant trends facing the power industry or to present highly innovative ideas that may produce a wide range of impacts.

4.2.31.1 Article Vision Title <visiontitle>

Definition: The title of the visionary statement.
Data type: string
Length: 2000

4.2.31.2 Article Vision Statement <visionstatement>

Definition: The visionary statement about the article.
Data type: string
Length: 2000
Example:
This paper is published under the title of Visionary Paper Series of the IEEE Transactions on Power Delivery. The Visionary Paper Series is designed for seasoned researchers or technical committees to share their visions on significant trends facing the power industry or to present highly innovative ideas that may produce a wide range of impacts. A paper in this series is intended to promote, influence, or lead the research activities in the subject area. It also serves as an archive and recognition of the authors’ technical leadership.

4.2.32 Article Author Group <authorgroup>

**Definition**: Information about article author group.

**Attribute**: source

*Enumerated value list*: IEEE, Inspec, Author Network

**Example**: `<authorgroup source="IEEE">`

4.2.32.1 Article Author <author>

**Definition**: The author of the article.

**Attribute**: role

*Definition*: The role of the author.

*Data type*: string

*Length*: 50

*Enumerated value list*: primary-corresponding, corresponding, primary, coauthor

**Example**: `<author role="primary-corresponding">`

4.2.32.1.1 Article Author AMS ID <amsid>

**Definition**: The unique key for the author’s record within the article. This is for internal use only.

*Data type*: string

*Length*: 50

**Example**: `<amsid>100010964</amsid>`

4.2.32.1.2 Article Author Order <authororder>

**Definition**: Designates the order of the author.

*Data type*: string

*Length*: 30

**Example**: `<authororder>1</authororder>`

4.2.32.1.3 Article Article Author ID <authorid>

**Definition**: Unique identifier for the author assigned by IEEE. This is for internal use only.

*Data type*: string
4.2.32.1.4 Article Corporate Author <corp_author>

Definition: A corporation or group of individuals authoring a paper.
Data type: string
Length: 50
Example: <corp_author>National Museum of Science</corp_author>

4.2.32.1.5 Article Author Proximity ID Set <authorproximityidset>

Definition: The set of the author proximity ID. This is for internal use only.

4.2.32.1.5.1 Article Author Proximity ID Set <authorproximityid>

Definition: This is for internal use only.
Data type: string
Length: 100
Example:
<authorproximityidset>
  <authorproximityid>37840251400</authorproximityid>
  <authorproximityid>38191927400</authorproximityid>
</authorproximityidset>

4.2.32.1.6 Article Author Orcid <orcid>

Definition: The unique identifier linkable to an author’s research output. Orcid stands for Open Research and Contributor ID.
Data type: string
Length: 50
Example: <orcid>1234567890123456</orcid>

4.2.32.1.7 Article Author Normalized Name <normname>

Definition: The normalized name of an author of the article. A ‘normalized’ author name means that the name is in a specific format: surname, initials, suffix (if any) for non-Asian names, exactly as published for Asian names where the family name can’t be determined.
Data type: string  
Length: 300  
Example: <normname>Yu, X...</normname>

4.2.32.1.8 Article Author Non-Normalized Name <nonnormname>

Definition: The non-normalized name of an author of the article. The non-normalized name is the original format of the name captured from metadata prior to any attempt at normalization.  
Data type: string  
Length: 300  
Example: <nonnormname>Xinghuo Yu</nonnormname>

4.2.32.1.9 Article Author Reference Number <authorrefid>

Definition: The primary key of the record in the Inspec master author database for the author.  
Data type: string  
Length: 30  
Example: <authorrefid>3</authorrefid>

4.2.32.1.10 Article Author Lineage <lineage>

Definition: The portion of a person’s name indicating a relationship to ancestors. This is for legacy data only and will not be populated going forward.  
Data type: string  
Length: 20  
Example: <lineage>Jr.</lineage>

4.2.32.1.11 Article Author First Name <firstname>

Definition: The first name of an author for the article.  
Data type: string  
Length: 50  
Example: <firstname>Xinghuo</firstname>

4.2.32.1.12 Article Author Unicode First Name <unicodefirstname>

Definition: The first name of an author for the article.  
Data type: string
4.2.3.1.12  Article Author Last Name <surname>

Definition: The last name of an author for the article.
Data type: string
Length: 100
Example: <surname>Yu</surname>

4.2.3.1.12  Article Author Unicode Last Name <unicodesurname>

Definition: The last name of an author for the article.
Data type: string
Length: 200
Example: <surname>Yu</surname>

4.2.3.1.12  Article Author Alternate Last Name <altsurname>

Definition: The alternate last name of an author for the article.
Data type: string
Length: 200
Example: <surname>Gao</surname>

4.2.3.1.13  Article Author Native Name <nativename>

Definition: The name of the author in his is her native/foreign language using Unicode character set.
Data type: string
Length: 300
Example: <nativename>なSelésnick なみ</nativename>

4.2.3.1.14  Article Author Affiliation <affiliation>

Definition: The institutional affiliation for the author.
Data type: string
Length: 1800
Example: <affiliation>Northeastern Univ., Hebei, China</affiliation>

4.2.3.1.15  Article Author Biography <authorbio>

Definition: The author biography.
Data type: string
Length: 4000
Example: <authorbio> Adam J. Wilt is now with Borland International, Scotts Valley, CA 95066. At the time of the work described in the article, he was with Abekas Video Systems, Redwood City, CA 94063.</authorbio>

4.2.32.1.16 Article Author IEEE Member Grade <ieeememgrade>

Definition: IEEE grants "Member grade" to those members who have satisfied IEEE-specified educational requirements and/or who have demonstrated professional competence in IEEE-designated fields of interest.
Data type: string
Length: 25
Example: <ieeememgrade>"SM"</ieeememgrade>

4.2.32.1.16 Article Author Email <email>

Definition: The email address of the author.
Data type: string
Length: 500
Example: <email>chb.hust@gmail.com</email>

4.2.32.1.17 Article Author Affiliation Group <affgrp>

Definition: Information about the group of author affiliation.

4.2.32.1.17.1 Article Author Affiliation <affn>
Definition: Affiliation for the author.

4.2.32.1.17.1.1 Article Author Affiliation AMS ID <amsid>

Definition: The unique key for the author's affiliation record within the article. This is for internal use only.
Data type: string
Length: 50
Example: <amsid>100010964</amsid>
4.2.3.17.1.2 Article Author Affiliation Organization <orgname>

Definition: Name of the organization of the author affiliation.
Data type: string
Length: 50
Example: <orgname><![CDATA[KFUPM]]></orgname>

4.2.3.17.1.3 Article Author Affiliation Organization Department <orgdept>

Definition: Department of the author affiliation organization.
Data type: string
Length: 50
Example: <orgdept>Systems Engineering Department</orgdept>

4.2.3.17.1.4 Article Author Affiliation Address <address>

Definition: The address of the article author affiliation. If available, this includes the following:
<street> street
<state> state
<country> country
<postcode> zipcode

Example:
<address>
    <street><![CDATA[Main Street]]></street>
    <city><![CDATA[Orlando]]></city>
    <state><![CDATA[Florida]]></state>
    <country><![CDATA[USA]]></country>
    <postcode>32816</postcode>
</address>

4.2.3.18 Article Author Type <authortype>

Definition: The role that the author contributed towards the article.
Data type: string
Length: 50
Enumerated value list: Author, Editor
Example: <authortype>Editor</authortype>
4.2.33 Article Date <date>

Definition: Information about the article date.

Attribute: datatype

Enumerated value list: LastEdit

Definition: The date that the information for the article record was last edited.

Example: <date datatype="LastEdit">
  <year>2006</year>
  <month>6</month>
  <day>21</day>
</date>

Enumerated value list: LastInspecUpd

Definition: The date that the information for the article record was last edited by Inspec.

Example: <date datatype="LastInspecUpd">
  <year>2006</year>
  <month>6</month>
  <day>21</day>
</date>

Enumerated value list: OriginalPub

Definition: The original publication date of the article in its original media, if available.

Example: <date datatype="OriginalPub">
  <year>2004</year>
  <month>1</month>
  <day>12</day>
</date>

Enumerated value list: preprintdate

Definition: The date when the preprint version of the article was received in IDAMS/IEEE Xplore.

Example: <date datatype="preprintdate">
  <year>2005</year>
  <month>1</month>
  <day>12</day>
</date>

Enumerated value list: rapidpostdate

Definition: The date when the rapidpost version of the article was received in IDAMS/IEEE Xplore.

Example: <date datatype="rapidpostdate">
  <year>2006</year>
  <month>1</month>
  <day>12</day>
</date>

Enumerated value list: ePub
**Definition:** The date that the final article was published in Xplore.

**Example:**
```xml
<date datetype="ePub">
  <year>2007</year>
  <month>1</month>
  <day>12</day>
</date>
```

### 4.2.34 Article Publication Date <article_publication_date>

**Definition:** For journals, the date is when the journal was first published in Xplore. For conferences, the date is when the conference paper was first handed out to conference attendees. For standards, the date is when the standard was officially published.

**Data type:** string

**Example:**
```xml
<article_publication_date>4/3/2020 12:00:00 AM</article_publication_date>
```

### 4.2.35 Article PDF Size <size>

**Definition:** The size of a PDF article in bytes.

**Data type:** integer

**Example:**
```xml
<size>1325941</size>
```

### 4.2.36 Article Filename <filename>

**Definition:** The current name of the article stored in our IDAMS repository. It may not match the PDF filename in Xplore.

**Attribute:** docpartition

**Definition:** The partition where the file resides. This is for internal use only.

**Data type:** string

**Length:** 32

**Attribute:** filetype

**Definition:** The type of the file.

**Data type:** string

**Length:** 32

**Enumerated value list:** MainPDF

**Definition:** The name of the article PDF, which may or may not match the PDF filename in Xplore.

**Example:**
```xml
<filename docpartition="5" filetype="MainPDF" filename="01528200.pdf" />
```

**Enumerated value list:** SourcePDFName

**Definition:** The source name of the article PDF.

**Example:**
```xml
<filename filetype="SourcePDFName" filename="ICCA-2-1.pdf" />
```

**Enumerated value list:** Graphical-Abstract-Cover-Image
Definition: The cover image of the graphical abstract.

Example: `<filename filetype="Graphical-Abstract-Cover-Image">2260813_gabstract.jpg</filename>`

Enumerated value list: Graphical-Abstract-Filename

Definition: The filename of the graphical abstract.

Example: `<filename filetype="Graphical-Abstract-Filename">2260813_mm.mp4</filename>`

Enumerated value list: AAMPDF

Definition: The author accepted manuscript PDF. This is for internal use only.

Data type: string

Length: 500

Example: `<filename filetype="AAMPDF">tnn-aam-2354712.pdf</filename>`

Enumerated value list: REFXML

Definition: The XML references. This is for internal use only.

Data type: string

Length: 500

Example: `<filename filetype="REFXML">tnn-aam-2354712.pdf</filename>`

4.2.37 Article Page Numbers `<artpagenums>`

Definition: The page numbers or designators of the start page of an article and the end page of an article.

Data type: string

Length: 2000

Attribute: endpage

Definition: The page number or designator for the end page of an article if there is a single end page. Page numbers provided in metadata and by Inspec may need to be parsed in order to obtain the end page value to use.

Data type: string

Length: 40

Attribute: startpage

Definition: The page number or designator for the start page of an article if there is a single start page. Page numbers provided in metadata and by Inspec may need to be parsed in order to obtain the first page value to use.

Data type: string

Length: 40

Example: `<artpagenums endpage="1257 Vol. 2" startpage="1254">1254-1257 Vol. 2</artpagenums>`
4.2.38 Article Graphical Abstract <article-graphical-abstract>

Definition: Information about the article graphical abstract.

4.2.38.1 Article Graphical Abstract Summary <graphical-abstract-summary>

Definition: Short description of the graphical abstract.
Data type: string
Length: 1800
Example: <graphical-abstract-summary>Millimeter wave mobile communications for 5G cellular: It will work!</graphical-abstract-summary>

4.2.38.2 Article Graphical Abstract Type <graphical-abstract-type>

Definition: The media format of the graphical abstract.
Data type: string
Length: 50
Example: <graphical-abstract-type>video</graphical-abstract-type>

4.2.38.3 Article Graphical Abstract File Size <graphical-abstract-file-size>

Definition: File size of the graphical abstract.
Data type: integer
Length: 25
Example: <graphical-abstract-file-size>232MB</graphical-abstract-file-size>

4.2.39 Article Pubsnumber <pubsnumber>

Definition: Unique ID assigned to an article.
Attribute: pubidtype
Enumerated value list: InspecAccession

Definition: The Inspec accession number assigned by Inspec to the article. This number is a unique number allocated as bibliographic records are included in the INSPEC Database Tape Service.
Data type: string
Length: 100
Example: <pubsnumber pubidtype="InspecAccession">8681198</pubsnumber>

Enumerated value list: InspecSICI

Definition: The Inspec SICI code assigned by Inspec to the article. This field contains the Serial Item Contribution Identification (SICI) code as defined in ANSI Standard Z39.56 (1991).
Data type: string
Length: 200
Example: <pubsnumber pubidtype="InspecSICI">0018-9294(200512)52:12L.2119:MGCI;1-R</pubsnumber>

Enumerated value list: InspecBatch
Definition: Contains an internal INSPEC code uniquely identifying the publication issue for serials or simply the publication for non-serials.
Data type: string
Length: 30
Example: <pubsnumber pubidtype="InspecBatch">XX94-00123</pubsnumber>

Enumerated value list: IEEELog
Definition: Contains a variable length alphanumeric string published by IEEE to identify uniquely a published article. This is used for historical data only, not generated in IDAMS.
Data type: string
Length: 50
Example: <pubsnumber pubidtype="IEEELog">9414446</pubsnumber>

Enumerated value list: CCCCode
Definition: Conveys authorizations to photocopy to users of copyrighted material from thousands of copyright owners, mainly publishers.
Data type: string
Length: 50
Example: <pubsnumber pubidtype="CCCCode">0-7803-9137-3/05/$20.00</pubsnumber>

Enumerated value list: InspecNonStdSICI
Definition: Contains a non-standard Inspec ‘SICI’ code assigned by Inspec to the article.
Data type: string
Length: 200
Example: <pubsnumber pubidtype="InspecNonStdSICI">0-7803-9137-3(20050626/29)L.1242:ODAW;1</pubsnumber>

Enumerated value list: PublisherItemID
Definition: Contains the Publisher Item Identifier assigned to the article by Inspec. This attribute is no longer used, but is stored here for historical reasons.
Data type: string
Length: 200
Example: <pubsnumber pubidtype="PublisherItemID">1234-5678(96)12345-x</pubsnumber>
4.2.40 Article AMS ID <amsid>

*Definition:* The unique key for the article’s record in data converted from the IEEE AMS database. This is used for constructing the url to Xplore PDFs.

*Data type:* string

*Length:* 50

*Example:* `<amsid>1542447</amsid>`

4.2.41 Article Serial ID <articleid>

*Definition:* The unique identifier which some journals use instead of the start page, especially applicable in the physics community.

*Data type:* string

*Length:* 50

*Example:* `<articleid>2043727</articleid>`

4.2.42 Article CS Article ID <csarticleid>

*Definition:* The unique ID assigned by Computer Society to the article.

*Data type:* string

*Length:* 80

*Example:* `<csarticleid>mco2013050084</csarticleid>`

4.2.43 Article Multimedia <multimedia>

*Definition:* Information about the multimedia.

4.2.43.1 Article Multimedia Summary <summary>

*Definition:* Summary of the article multimedia.

*Data type:* string

*Length:* 2000

*Example:* `<summary>Contains 10 JPEG and 4 MPEG files illustrating the article’s main points</summary>`

4.2.43.2 Article Multimedia Compressed <compressed>

*Definition:* Contains descriptive information that is stored in a downloadable zip package.

4.2.43.2.1 Article Multimedia Compressed Filename <compressedfilename>

*Definition:* Compressed file name of the zipped multimedia package.

*Data type:* string
4.2.4.3.2 Article Multimedia Compressed File Size
<compressedfilesize>

Definition: Compressed file size in bytes of the zipped multimedia package.
Data type: integer
Length: 10
Example: <compressedfilesize>3MB</compressedfilesize>

4.2.4.3.3 Article Multimedia Compression Type
<compressiontype>

Definition: Compression type of the zipped multimedia package.
Data type: string
Length: 256
Example: <compressiontype>zip</compressiontype>

4.2.4.3.4 Article Multimedia Environment Type
<environmenttype>

Definition: Environment type of the zipped multimedia package.
Data type: string
Length: 256
Example: <environmenttype>Windows</environmenttype>

4.2.4.3.5 Article Multimedia Readme File <readmefile>

Definition: Readme file that is contained in the zipped multimedia package.
Data type: string
Length: 500
Example: <readmefile>01lgrs02-smith-mm-readme.txt</readmefile>

4.2.4.3 Article Multimedia Component <component>

Definition: Contains DOI style link to multimedia from the article PDF.
4.2.4.3.1 Article Multimedia Component Filename
<componentfilename>

*Definition:* File name of the article multimedia component.
*Data type:* string
*Length:* 500
*Example:* `<componentfilename>presen.ppt</componentfilename>`

4.2.4.3.2 Article Multimedia Component File Size
<componentfilesize>

*Definition:* File size in bytes of the article multimedia component.
*Data type:* integer
*Length:* 10
*Example:* `<componentfilesize>3.67MB</componentfilesize>`

4.2.4.3.3 Article Multimedia Component Type
<componenttype>

*Definition:* Type of the article multimedia component.
*Data type:* string
*Length:* 256
*Example:* `<componenttype>ppt</componenttype>`

4.2.4.3.4 Article Multimedia Component Platform
<componentplatform>

*Definition:* Platform of the article multimedia component.
*Data type:* string
*Length:* 256
*Example:* `<componentplatform>Windows</componentplatform>`

4.2.4.3.5 Article Multimedia Component Description
<componentdescription>

*Definition:* Description of the article multimedia component.
*Data type:* string
*Length:* 2000
*Example:* `<componentdescription>Summarizes the paper's results and shows why the proposed method is better.</componentdescription>`
4.2.43.3.6 Article Multimedia Component Title
<componenttitle>

*Definition:* Title of the article multimedia component.
*Data type:* string
*Length:* 1024
*Example:* `<componenttitle>Performance enhancement using quadplex encoding</componenttitle>`

4.2.43.3.7 Article Multimedia Component DOI
<component_doi>

*Definition:* Digital object identifier of the article multimedia component.
*Data type:* string
*Length:* 100
*Example:* `<component_doi>10.1109/TED.2006.1234566/mm1</component_doi>`

4.2.43.3.8 Article Multimedia Component Person
<componentperson>

*Definition:* The author of the article multimedia component.

4.2.43.3.8.1 Article Multimedia Component First Name <componentpersonfirstname>

*Definition:* First name of the author of the article multimedia component.
*Data type:* string
*Length:* 50
*Example:* `<componentpersonfirstname>Bob</componentpersonfirstname>`

4.2.43.3.8.2 Article Multimedia Component Surname <componentpersonsurname>

*Definition:* Last name of the author of the article multimedia component.
*Data type:* string
*Length:* 50
*Example:* `<componentpersonsurname>Smith</componentpersonsurname>`
4.2.44 Article Keywordset <keywordset>

Definition: Information about the set of article keywords.
Attribute: keywordtype
Enumerated value list: Inspec
Definition: Contains controlled index terms assigned to the document from the Inspec Thesaurus.
Data type: string
Length: 500
Example: <keywordset keywordtype="Inspec">
  <keyword>
    <keywordterm>automated highways</keywordterm>
  </keyword>
  <keyword>
    <keywordterm>IEEE standards</keywordterm>
  </keyword>
  <keyword>
    <keywordterm>transportation</keywordterm>
  </keyword>
</keywordset>

Enumerated value list: InspecFree
Definition: Contains additional indexing terms assigned to the article by Inspec indexers that are not part of the standard Inspec Thesaurus.
Data type: string
Length: 500
Example: <keywordset keywordtype="InspecFree">
  <keyword>
    <keywordterm>digital communications</keywordterm>
  </keyword>
  <keyword>
    <keywordterm>ITS data messages</keywordterm>
  </keyword>
  <keyword>
    <keywordterm>Intelligent Transportation System</keywordterm>
  </keyword>
  <keyword>
    <keywordterm>message sets</keywordterm>
  </keyword>
  <keyword>
    <keywordterm>transportation infrastructure</keywordterm>
  </keyword>
</keywordset>

Enumerated value list: IEEE
Definition: Contains controlled index terms assigned to the document as per the IEEE Thesaurus.
Data type: string
Length: 500
Example: <keywordset keywordtype="IEEE">
    <keyword>
        <keywordterm>Automated highways</keywordterm>
        <keywordmodifier>intell. transportation, message set template</keywordmodifier>
    </keyword>
</keywordset>

Enumerated value list: IEEEFree
Definition: Contains additional indexing terms assigned to the article by IEEE indexers that are not part of a standard Thesaurus.
Data type: string
Length: 500
Example: <keywordset keywordtype="IEEEFree">
    <keyword>
        <keywordterm>Active model initialization</keywordterm>
    </keyword>
    <keyword>
        <keywordterm>phase congruence</keywordterm>
    </keyword>
    <keyword>
        <keywordterm>multiresolution analysis</keywordterm>
    </keyword>
    <keyword>
        <keywordterm>low level representation</keywordterm>
    </keyword>
</keywordset>

Enumerated value list: AuthorFree
Definition: Contains a list of author specified free-language words or phrases which are assigned by the author, indexers, or may be present as "keywords" in the original paper.
Data type: string
Length: 500
Example: <keywordset keywordtype="AuthorFree">
    <keyword>
        <keywordterm>motion analysis</keywordterm>
    </keyword>
    <keyword>
        <keywordterm>shadow removal</keywordterm>
    </keyword>
</keywordset>

Enumerated value list: DOE
Definition: The Department of Energy classification codes.
Data type: string
Length: 200
Example: <keywordset keywordtype="DOE">
    <keyword>
        <keywordterm>laser radiation</keywordterm>
    </keyword>
    <keyword>
        <keywordterm>separation process</keywordterm>
    </keyword>
</keywordset>
Enumerated value list: PACS

Definition: Stands for Physics and Astronomy Classification Scheme, which is an internationally adopted, hierarchical subject classification scheme, designed by the American Institute of Physics (AIP) to classify and categorize the literature of physics and astronomy.

Data type: string
Length: 200

Example: `<keywordset keywordtype="PACS">
  <keyword>
    <keywordterm>8840</keywordterm>
  </keyword>
  <keyword>
    <keywordterm>8245</keywordterm>
  </keywordset>

4.2.45 Article Mesh Heading List <MeshHeadingList>

Definition: List of information regarding mesh heading for the article.

4.2.45.1 Article Mesh Heading <MeshHeading>

Definition: Data set pertaining to PubMed Mesh terms. 0 indicates no mesh terms associated and 1 indicates that mesh terms are associated.

Attribute: MeshFlag
Data type: integer
Enumerated Value List: 0, 1

4.2.45.1.1 Article Descriptor Name <DescriptorName>

Definition: The actual mesh heading assigned by PubMed to an article.

Data type: string
Length: 500

Example:
<MeshHeadingList MeshFlag="1">
  <MeshHeading>
    <DescriptorName>Algorithms</DescriptorName>
  </MeshHeading>
</MeshHeadingList>

4.2.46 Article Index Classification Set <indexclassificationset>

Definition: Information about the set of index classification code for the article.
4.2.46.1 Article Index Classification <indexclassification>

Definition: Information about the index classification for the author.

Attribute: classificationcode

Definition: Contains a list of Inspec indexing codes that specify where the article appears in the current Inspec Classification, and is where the article is cross referenced in Inspec Abstracts Journals if appropriate.

Data type: string
Length: 10
Example: 

```
<indexclassificationset>
  <indexclassification classificationcode="C6110B"/>
  <indexclassification classificationcode="C6170"/>
</indexclassificationset>
```

4.2.47 Article Treatment Code Set <treatmentcodeset>

Definition: Information about the set of Inspec treatment code for the article.

4.2.47.1 Article Treatment Code <treatmentcode>

Definition: This field if present may contain one to nine code letters indicating the type of treatment given by the document. This field may be repeated as often as needed for an individual record. However, no duplications are allowed.

Data type: string
Length: 100

Enumerated value list: Application, Bibliography, Economic, General or Review, New, Development, Practical, Product Review, Theoretical or Mathematical, Experimental

Example: 

```
<treatmentcodeset>
  <treatmentcode>Practical</treatmentcode>
</treatmentcodeset>
```

4.2.48 Article Numerical Index Set <numericalindexset>

Definition: Information about the set of Inspec numerical index.

Attribute: physicalquantity

Definition: The physical quantity of a numerical index term.

Data type: string
Length: 50

Attribute: numericvalue
**Definition:** The single value or start of a range of values for the index term. The two values (Value 1 & Value 2) are stored in ascending order. These are stored in the following floating-point format:

\[-N.NNNN...EIII\]

Where:

<table>
<thead>
<tr>
<th>N.NNNN</th>
<th>Decimal Number ((&gt;=1 &amp; &lt;10))</th>
</tr>
</thead>
<tbody>
<tr>
<td>III</td>
<td>III = Exponent ((&gt;=-99 &amp; &lt;=+99)) [except for the value 0.0E+00]</td>
</tr>
</tbody>
</table>

The number of significant figures is \(>=2 \& <=12\).

**Data type:** string  
**Length:** 2000

**Attribute:** numericvalue

**Definition:** The optional end value of a range of values for the index term. The two values (Value 1 & Value 2) are stored in ascending order. These are stored in the following floating-point format:

\[-N.NNNN...EIII\]

Where:

<table>
<thead>
<tr>
<th>N.NNNN</th>
<th>Decimal Number ((&gt;=1 &amp; &lt;10))</th>
</tr>
</thead>
<tbody>
<tr>
<td>III</td>
<td>III = Exponent ((&gt;=-99 &amp; &lt;=+99)) [except for the value 0.0E+00]</td>
</tr>
</tbody>
</table>

The number of significant figures is \(>=2 \& <=12\).

**Attribute:** standardunit

**Definition:** The standard unit for the index term.

**Data type:** string  
**Length:** 2000

**Example:**

```
<chemicalindexset>
  <chemicalindex>
    <physicalquantity>wavelength</physicalquantity>
    <numericvalue>7.0E-07</numericvalue>
    <numericvalue>1.0E-06</numericvalue>
    <standardunit>m</standardunit>
  </chemicalindex>
</chemicalindexset>
```

### 4.2.49 Article Chemical Index Set <chemicalindexset>

**Definition:** Information about the set of Inspec chemical index.

#### 4.2.49.1 Article Chemical Index <chemicalindex>

**Definition:** The substance or material system or the components of the substance or material system. Chemical elements are referred to by their standard one- or two-character symbols.

**Data type:** string
Length: 2000
Attribute: chemrole

Definition: The role that the chemical item plays in the complete substance or material system or to the type of system in the case of the entry for the complete system.

Data type: string
Length: 2000
Enumerated value list: see table below

<table>
<thead>
<tr>
<th>Value</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>el</td>
<td>element</td>
</tr>
<tr>
<td>dop</td>
<td>dopant</td>
</tr>
<tr>
<td>bin</td>
<td>binary system</td>
</tr>
<tr>
<td>int</td>
<td>interface system</td>
</tr>
<tr>
<td>ss</td>
<td>system with 3 or more components</td>
</tr>
<tr>
<td>sur</td>
<td>surface or substrate</td>
</tr>
</tbody>
</table>

Example: `<chemicalindexset>
<chemicalindex chemrole="el">Xe</chemicalindex>
</chemicalindexset>`

4.2.50 Article Astronomical Index Set <astronomicalindexset>

Definition: Information about the set of Inspec astronomical index for the article.

4.2.50.1 Article Astronomical Index <astronomicalidndex>

Definition: Contains the controlled designations for astronomical objects discussed in the bibliographic item.

Data type: string
Length: 2000

4.2.51 Article Fundref Group <fundrefgrp>

Definition: Information about the groups of fundref for the article.

4.2.51.1 Article Fundref <fundref>

Definition: Provides a standard way to report funding sources for published scholarly research.
4.2.51.1.1 Article Funder Name <funder_name>

Definition: The name of the funding organization or agency as it appears in the Fundref Registry. This is the authoritative name for the funding organization.
Data type: string
Length: 500

4.2.51.1.2 Article Funder Agency Name <agency_name>

Definition: The author’s version of the funding organization name. There may be a slight difference between the agency name and the official funder name.
Data type: string
Length: 500

4.2.51.1.3 Article Funder ID <funder_id>

Definition: The funding agency identifier in the form of a DOI. The fundref ID is derived from the Fundref Registry and cannot be created by the publisher.
Data type: string
Length: 50

4.2.51.1.4 Article Grant Number <grant_number>

Definition: The award number of the funder identifier. There may be multiple grant numbers for one funding organization.
Data type: string
Length: 1000

Example:

```xml
<fundrefgrp>
  <fundref>
    <funder_name>Ministry of Science and Technology, Taiwan</funder_name>
    <agency_name>Canadian Research Council</agency_name>
    <funder_id>10.13039/501100004663</funder_id>
    <grant_number>MOST 103-2220-E-007-022</grant_number>
  </fundref>
</fundrefgrp>
```

4.2.52 Article Supplement Group <supplement_group>

Definition: Information about the article supplement group. An article may reference supplemental material or research data in an article where the supplemental material resides in an external repository or database.
Attribute: repository
**Definition:** The central location where the supplemental material resides in. Many research data repositories are in existence such as Dryad, Figshare, Dataverse, Zenodo, Code-Ocean, etc.

*Data type:* string  
*Length:* 255

**Attribute:** type

*Definition:* Type of supplementary material.

*Data type:* string

### 4.2.52.1 Article Supplement `<supplement>`

*Definition:* Information about the article supplement.

#### 4.2.52.1.1 Article Supplement DOI `<doi>`

*Definition:* The Digital Object Identifier (DOI) number assigned to the article supplement.

*Data type:* string  
*Length:* 100

#### 4.2.52.1.2 Article Supplement URI `<uri>`

*Definition:* The IEEE uniform resource identifier (URL) for the supplemental material.

*Data type:* string  
*Length:* 255

#### 4.2.52.1.3 Article Supplement Name `<name>`

*Definition:* Title for the supplemental material.

*Data type:* string  
*Length:* 2000

#### 4.2.52.1.4 Article Supplement Language `<language>`

*Definition:* Programming language (if available) for the supplemental material.

*Data type:* string  
*Length:* 255

#### 4.2.52.1.5 Article Supplement Widget URL `<widget_url>`

*Definition:* Used exclusively by Xplore to display code-ocean algorithm. Strictly for internal use only.

*Data type:* string
Length: 250

4.2.52.1.6 Article Supplement Keyword Set <keywordset>

Definition: Information about the set of article supplement keywords.
Attribute: keywordtype
Enumerated value list: AuthorFree
   Definition: Keywords for supplements that are assigned by the author.
   Data type: string
   Length: 500

4.2.52.1.7 Article Supplement Badge <badges>

Definition: Token of acknowledgment awarded to an article for the presence of code or data supplements, which enables reproducible research.
Attribute: type
Enumerated value list: Code-Available, Code-Reviewed, Dataset-Available, Dataset-Reviewed
Data type: string
Length: 25

Example:
<supplement_group repository="code-ocean" type="algorithm">
  <supplement>
    <doi>10.5072/CO.0ae675d2-46a3-4c20-97de-604cfd719f2c</doi>
    <name>Test linked to LGRS.2017.2787743</name>
    <language>Python</language>
    <widget_url>https://codeocean.com/widget.js?id=0ae675d2-46a3-4c20-97de-604cfd719f2c</widget_url>
    <keywordset keywordtype="AuthorFree">
      <keyword>
        <keywordterm>accelerometer</keywordterm>
      </keyword>
      <keyword>
        <keywordterm>acoustics</keywordterm>
      </keyword>
    </keywordset>
    <badges type="Code-Available"/>
  </supplement>
</supplement_group>

4.2.53 Associated Article <assocarticle>

Definition: The DOI for the article that is related to the current article in some way. This is stored in conjunction with the association type for the article.
**Data type**: string  
**Length**: 100

**Attribute**: assoctype  
**Definition**: The type of association for a related article.  
**Data type**: string  
**Length**: 30  
**Enumerated value list**: PeerDependent, OtherPeer, ChildErratum, ChildVersion, ChildCorrected, Subcomponent, Parent, Recommended, Preprint  
**Example**: `<assocarticle assoctype="Preprint">10.36227/techrxiv.10296887.v2</assocarticle>`

### 4.2.54 Article Journal Topic Set <articlejournaltopicset>
**Definition**: Information about the set of topics for an article.

#### 4.2.54.1 Article Journal Topic <articlejournaltopic>
**Definition**: The select topic for an article.  
**Data type**: string  
**Length**: 500  
**Example**:  
```xml  
<articlejournaltopicset>  
  <articlejournaltopic>  
    <![CDATA[Vehicular and wireless technologies]]>  
  </articlejournaltopic>  
  <articlejournaltopic>  
    <![CDATA[Intelligent transportation systems]]>  
  </articlejournaltopic>  
</articlejournaltopicset>  
```

### 4.2.55 Article Journal Section <joursec>
**Definition**: Grouping of articles into sections within an issue.  
**Data type**: string  
**Length**: 2000  
**Example**: `<joursec>Correspondence</joursec>`

### 4.2.56 Article Special Section Group <special_section_group>
**Definition**: Contains the Section Society for the article.

#### 4.2.56.1 Article Section Society <section_society>
**Definition**: A collection of articles that focus on an IEEE Society or Council’s field of interest. These Society Sections are published in IEEE Access. Authors may submit their article to a Society Section and have their article processed by a topically focused Associate Editor from that IEEE Society or Council. Society (and Council)
Sections are a permanent feature of IEEE Access and will be open for submissions continuously.

Data type: string  
Length: 255  
Example:
<special_section_group>
  <section_society>IEEE Power & Energy Society Section</section_society>
</special_section_group>

4.2.57 Article Suppression <article_suppression>

Definition: A flag that indicates that an article needs to be suppressed from the publication.

Data type: string  
Length: 25  
Enumerated value list: Retracted, Removed, Notice of Violation  
  Retracted - PDF is replaced with 1 page notice  
  Removed - PDF is replaced with 1 page notice  
  Notice of Violation - 1st page is added with notice of violation  
Example: <article_suppression>Retracted</article_suppression>
## APPENDIX: List of Content Types

### Conference Content Types

<table>
<thead>
<tr>
<th>Content Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>advert</td>
<td>Advertisements</td>
</tr>
<tr>
<td>awards</td>
<td>Article &amp; people awards (includes the former list-award)</td>
</tr>
<tr>
<td>blank</td>
<td>Blank pages</td>
</tr>
<tr>
<td>breaker-page</td>
<td>Pages that contain continuation text, used most often between parts of a conference proceedings. Includes conference copyright page.</td>
</tr>
<tr>
<td>bylaws</td>
<td>Society bylaws. Bylaw listings, changes, etc.</td>
</tr>
<tr>
<td>commentary</td>
<td>Commentary (includes conference &quot;Keynote Address&quot; and Trans Professional Communication &quot;Interface&quot; articles)</td>
</tr>
<tr>
<td>content-announce</td>
<td>Information on future special issues, future articles, future TOCs of other publications, etc.</td>
</tr>
<tr>
<td>errata</td>
<td>Corrections to an article</td>
</tr>
<tr>
<td>front-cover</td>
<td>Front covers that do not contain TOCs and are not blank.</td>
</tr>
<tr>
<td>future-events</td>
<td>Information on future conference locations and topics.</td>
</tr>
<tr>
<td>game</td>
<td>Games. Non-technical Magazines content; includes contest information.</td>
</tr>
<tr>
<td>index-author</td>
<td>Author index</td>
</tr>
<tr>
<td>index-subject</td>
<td>Subject index</td>
</tr>
<tr>
<td>info-author</td>
<td>Information for authors</td>
</tr>
<tr>
<td>info-society</td>
<td>All Society related material, including society news, Board of Governors meeting minutes, lists of IEEE fellows, etc.</td>
</tr>
<tr>
<td>list-contrib</td>
<td>Contributor Listings</td>
</tr>
<tr>
<td>list-reviewer</td>
<td>Reviewer and referee listings</td>
</tr>
<tr>
<td>list-staff</td>
<td>Staff or Society listings</td>
</tr>
<tr>
<td>lit-survey</td>
<td>Survey of the literature</td>
</tr>
<tr>
<td>obit</td>
<td>Obituaries, memoriams, or dedications.</td>
</tr>
<tr>
<td>opinion</td>
<td>An opinion piece, as in an editorial, forward/opening remarks, or a letter to the editor. In some magazines this type may look like a Section, a Column or Department (e.g. in Spectrum called &quot;FORUM&quot; section).</td>
</tr>
<tr>
<td>orig-research</td>
<td>Articles containing original research, published at any point in time. Includes reprinted articles.</td>
</tr>
<tr>
<td>panel-discussion</td>
<td>An article containing report of an organized panel discussion.</td>
</tr>
<tr>
<td>review</td>
<td>Reviews of current or newly available literature, software,</td>
</tr>
<tr>
<td>Content Type</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>products etc.</td>
<td>Reviews of one or more of books, software, videos, CDs, DVDs, and other media. Includes reviews of current or newly available literature, software, products, etc.</td>
</tr>
<tr>
<td>teaser-abstract</td>
<td>The TEASER-ABSTRACT is the abstract of an article/paper that is presented elsewhere or in a different format (electronic versus paper). This type can used also be for items noted as 'Extended Abstracts' that do not fall under other categories.</td>
</tr>
<tr>
<td>tech-survey</td>
<td>Scanning the technology. Overview article describing an old or new technology.</td>
</tr>
<tr>
<td>toc</td>
<td>Table of contents</td>
</tr>
<tr>
<td>tutorial</td>
<td>Article aimed at teaching someone about a technical topic.</td>
</tr>
</tbody>
</table>

**Journals Content Types**

<table>
<thead>
<tr>
<th>Content Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>advert</td>
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<tr>
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</tr>
<tr>
<td>blank</td>
<td>Blank pages</td>
</tr>
<tr>
<td>breaker-page</td>
<td>Pages that contain continuation text, used most often between parts of a conference proceedings. Includes conference copyright page.</td>
</tr>
<tr>
<td>call-for-papers</td>
<td>Call for papers. Used for a range of announcements: Calls for Papers; Calendars; Contributions; Misc. fillers.</td>
</tr>
<tr>
<td>commentary</td>
<td>Commentary (includes conference &quot;Keynote Address&quot; and Trans Professional Communication &quot;Interface&quot; articles)</td>
</tr>
<tr>
<td>comment-reply</td>
<td>Comments / Replies; Discussion/Closure TPWRD, TPWRS have comment-replies</td>
</tr>
<tr>
<td>content-announce</td>
<td>Information on future special issues, future articles, future TOCs of other publications, etc.</td>
</tr>
<tr>
<td>disting-lecturers</td>
<td>Distinguished lecturers listings.</td>
</tr>
<tr>
<td>errata</td>
<td>Corrections to an article</td>
</tr>
<tr>
<td>front-cover</td>
<td>Front covers that do not contain TOCs and are not blank.</td>
</tr>
<tr>
<td>future-events</td>
<td>Information on future conference locations and topics.</td>
</tr>
<tr>
<td>index-author</td>
<td>Author index</td>
</tr>
<tr>
<td>index-edics</td>
<td>EDICS (Editor's Information Classification Scheme). Areas of expertise with subcategorized topics.</td>
</tr>
</tbody>
</table>

**NOTE:** Name changed to INDEX-EDICS for consistency with other index Content Types
<table>
<thead>
<tr>
<th><strong>Content Type</strong></th>
<th><strong>Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>index-subject</td>
<td>Subject index</td>
</tr>
<tr>
<td>info-author</td>
<td>Information for authors</td>
</tr>
<tr>
<td>info-society</td>
<td>All Society related material, including society news, Board of Governors meeting minutes, lists of IEEE fellows, etc.</td>
</tr>
<tr>
<td>issue-survey</td>
<td>Survey of the articles in this issue. Includes &quot;scanning the issue,&quot; &quot;issue summaries,&quot; &quot;special issue/special section intros,&quot; and &quot;conference highlights&quot;</td>
</tr>
<tr>
<td>list-contrib</td>
<td>Contributor Listings</td>
</tr>
<tr>
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<td>Reviewer and referee listings</td>
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<td>lit-survey</td>
<td>Survey of the literature</td>
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</tr>
<tr>
<td>orig-research</td>
<td>Articles containing original research, published at any point in time. Includes reprinted articles.</td>
</tr>
<tr>
<td>patent-abstract</td>
<td>Patent abstracts.</td>
</tr>
<tr>
<td>prolog</td>
<td>Used only for Proceedings of the IEEE. Introductory piece to an article within the issue. A prolog or summary introduction to a full document.</td>
</tr>
<tr>
<td>reader-survey</td>
<td>Reader surveys</td>
</tr>
<tr>
<td>review</td>
<td>Reviews of current or newly available literature, software, products, etc. Reviews of one or more of books, software, videos, CDs, DVDs, and other media. Includes reviews of current or newly available literature, software, products, etc.</td>
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<tr>
<td>summary-abstract</td>
<td>Summary of abstracts in the current issue</td>
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<tr>
<td>teaser-abstract</td>
<td>The TEASER-ABSTRACT is the abstract of an article/paper that is presented elsewhere or in a different format (electronic versus paper). This type can used also be for items noted as 'Extended Abstracts' that do not fall under other categories.</td>
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<tr>
<td>advert</td>
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</tr>
<tr>
<td>awards</td>
<td>Article &amp; people awards (includes the former list-award)</td>
</tr>
<tr>
<td>blank</td>
<td>Blank pages</td>
</tr>
<tr>
<td>breaker-page</td>
<td>Pages that contain continuation text, used most often between parts of a conference proceedings. Includes conference copyright page.</td>
</tr>
<tr>
<td>bylaws</td>
<td>Society bylaws. Bylaw listings, changes, etc.</td>
</tr>
<tr>
<td>call-for-papers</td>
<td>Call for papers. Used for a range of announcements: Calls for Papers; Calendars; Contributions; Misc. fillers.</td>
</tr>
<tr>
<td>cartoon</td>
<td>Cartoons. Non-technical diverting Magazines content.</td>
</tr>
<tr>
<td>commentary</td>
<td>Commentary (includes conference &quot;Keynote Address&quot; and Trans Professional Communication &quot;Interface&quot; articles)</td>
</tr>
<tr>
<td>comment-reply</td>
<td>Comments / Replies; Discussion/Closure TPWRD, TPWRS have comment-replies</td>
</tr>
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<td>content-announce</td>
<td>Information on future special issues, future articles, future TOCs of other publications, etc.</td>
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<td>An article containing report of an organized panel discussion.</td>
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<td>Puzzles. Non-technical diverting Magazines content; includes 'brain teasers' and 'crossword puzzles.&quot;</td>
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