

Policies and Procedures of IEEE Technical Committee on Big Data

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1 Introduction

This document introduces Policies and Procedures of Technical Committee on Big Data (TCBD), IEEE Communications Society. In December 2014, IEEE Technical Subcommittee on Big Data (TSCBD) was approved and established as the dedicated technical organization within IEEE Communications Society. In December 2016, TSCBD was officially approved and elevated as TCBD.

2 Charter and Scope

The goal of Technical Committee on Big Data (TCBD), IEEE Communications Society, is to provide a platform for its members, and the whole research, development, standardization, and service community of energy- and/or resource- efficient and/or environment-sustainable communications, computing, and relevant systems, to interact and exchange technical ideas, to identify major research and development challenges, and to collaborate and investigate solutions in the development of energy-sustainable, resource-saving, and environment-friendly green communications and computing technologies. The areas this committee addresses are quite inter-disciplinary due to the inherent nature of the relevant green topics. This committee not only addresses greening communications, computing, and relevant systems but also investigate using communications, computing, and relevant systems to achieve green objectives for the sustainable world.

The technical issues addressed by this Technical Committee include all aspects of big data processing, analysis, analytics, integration, retrieval, related research issues, such as theories, algorithms, solutions, practices, applications, and challenges for big data big data processing, analysis, analytics, integration, retrieval on information and communications technologies; machine learning, data mining, web mining, graph mining, and processing; computational intelligence for big data; knowledge discovery for big data; big data for cloud computing and networking; big data for network design and architectures; big data for network protocols; big data for green information and communication technologies; big data for security, privacy, and trust; crowdsourcing and crowd intelligence using big data; big data maintenance; data science; big data platform design; data-intensive workflows; big data benchmarks; reliability for systems with big data; big data for wireless access and mobility; big data for Internet of Things, big data for software-defined networking; big data for cognitive communications and computing; big data for smart homes; big data for smart sensing; big data for smart grids; big data for relevant signal processing techniques; big data for biomedical and health technologies; big data for social networks; and so on.

The committee sponsors and promotes technical publications, conferences, symposia, workshops, tutorials, student activities, standardizations, and other related activities in the areas of green communications, computing, and relevant systems. The committee also assumes proactive duty to nominate suitable candidates for the IEEE Communications Society (ComSoc) and IEEE awards, propose distinguished lecturer candidates, endorse deserving candidates for the election to IEEE Senior Member and Fellow grade, and make contributions to standards in an organized form.

3 Policies and Procedures

TCBD adheres to all policies specified by the IEEE Communications Society for Technical Committees (IEEE Communications Society Policies and Procedures, Sec. 7.0 - Operating Procedures Template).

3.1 Membership Requirements

Anybody can be a member of the Technical Committee on Big Data (TCBD). An IEEE TCBD membership does not require that the membership applicant owns an IEEE membership.

Normally, one should show his/her relevant interests or background on the areas that the TCBD cover before his/her TCBD membership is officially approved. To become a member it is necessary for the membership applicant to subscribe to and maintain in the TCBD mailing list as specified on its website.

The definition of Active Member is the same as that of Voting Member defined in Section 3.3.

3.2 Definition of Elected and Appointed Officer Positions

The committee has three kinds of elected officers: Chair, Vice Chairs, and Secretary. The term of each elected officer is for two years. An elected position cannot serve more than two consecutive terms of office for the same elected position. Elected Officers shall not serve for more than six consecutive years in any elected position within TCBD. The Chair reports directly to the Vice President of Technical and Educational Activities (VP-TEA) of ComSoc, in accordance with the ComSoc Bylaws. The Chair represents TCBD to the Technical and Educational Activities Council (TEAC), and to any ComSoc committee or board, and provides endorsement for technical conferences that require technical co-sponsorship to ComSoc. The Vice Chairs support the Chair and take responsibility of the Chair in his/her absence. The other responsibilities of Vice Chairs include participating in TCBD meetings, supporting the Chair as required, advising Chair on issues related to the TCBD activities, and promoting activities and identify opportunities in their regions. The Secretary may keep meeting documents and meeting minutes. If a TCBD officer position becomes vacant before normal conclusion of his/her term, the remaining term shall be filled by special election within TCBD. The positions filled shall be f

or completion of the interrupted term. At the discretion of TCBD, there may be additional elected or appointed (officer) positions, such as standards, industry, regulation and research forum liaisons, advisors, award subcommittee members. In no case shall there be more than eight elected officers, but there may be as many appointed positions as necessary for proper operations of. The number and roles of Vice Chairs in the selection can be decided by the past Chair before the TCBD selection of officers.

3.3 Nomination and Election Policies and Procedures

Term: The nominal term for Chair, Vice Chair and Secretary shall be two years. Any officer can be elected to the same position for one additional, contiguous term (i.e., continuously serve in any particular elected officer position for a maximum of four years). TCBD officers can be elected to a different officer position, but in no case shall one person continuously serve as an elected TCBD officer within the same committee for more than six consecutive years. Student Members are not permitted to serve as elected TC officers. The exact number of elected officers shall be decided by the current TCBD chair before the election of TCBD officers. At the discretion of the TC Chair, there may be additional appointed positions.

Nomination and Election (N&E) Subcommittee:

The N&E Subcommittee will consist of past chairs and TCBD Steering Subcommittee Members but may include any other active TCBD members appointed to the committee by the current TCBD chair. The number of the N&E Subcommittee members should be not less than 3. The N&E Subcommittee will be given a task of identifying candidates for the vacant officer position(s). TC members are able to submit nominations via email by communicating to the current N&E Subcommittee Chair or directly to the N&E

committee. The N&E Subcommittee shall come into existence first preceding the actual election and shall be dissolved after the election and installation of officers.

Chair: The current TCBD Chair shall typically chair the N&E Subcommittee if not being considered for re-election. Otherwise, the current TCBD chair can appoint some other active member as the N&E Subcommittee Chair.

Members: Past chairs, TCBD Steering Subcommittee Members, and TCBD member representatives, who are appointed by the current TCBD chair.

who have already been Voting Members of the TCBD (the definition of Voting Member is

Eligible candidates for officer positions:

- Eligible candidates for an officer position are those
 - who have already been Voting Members of the TCBD (the definition of Voting Member is given in another paragraph below.)
 - who have indicated willingness to serve if elected.
 - who have actively supported the missions of TCBD and substantially contributed their efforts to TCBD activities.
- Eligible candidates for Chair position are those
 - who have already previously experienced one position of TCBD officers (Chairs, Vice-Chairs, Secretaries) if there are such available candidates.

The eligible candidates or the nominators of the eligible candidates should send the biographies and position statements of the candidates to N&E Subcommittee.

Nomination: To facilitate the election of the new officers (Chair, Vice Chairs and Secretary) in every two years. At the second year of their nominal term, the N&E Subcommittee Chair or N&E Subcommittee members are responsible to announce the calls for nominations via TCBD email list or TCBD voting member email list or TCBD meetings. The N&E Subcommittee shall collect nominations of individuals for the officer positions who are active (voting) members of the TCBD and who have indicated willingness to serve if elected. The N&E Subcommittee shall discuss (either by teleconference, or through email, or in person) and possibly vote to select a slate of candidates for the officer positions. In the case of more candidates for one or all the positions, then the candidates who are not selected to be listed on the official slate will be listed as eligible contender(s) for specified position(s). The slate of candidates and other possible candidates shall be then announced to TCBD voting members before the election. It is desirable that biographies and position statements of candidates be available to TCBD members. Candidates shall be permitted to “advertise” their candidacy on the TCBD email distribution list.

Election:

- Elected position candidates should provide their IEEE member numbers, with a confirmation that they satisfy the criteria for being TCBD voting members
- The election of new officers is to be administered by the N&E Subcommittee Chair and is to take place either at a TCBD semi-annual meeting or via electronic ways, such as emails.
- In the case that a position has only one candidate, then the election process is basically an approving process by the voting members. In the case that a position has more than one candidate, then the one

received the largest number of votes from the voting members wins the election for the position. In the event of a tie, there are two ways to break the tie:

- votes may be done again until the tie is broken.
- N&E Subcommittee may cast a tie-breaking vote.

A candidate can be a candidate for more than one officer position. If a candidate has been elected for some higher level position, the candidate is removed from consideration for all other officer positions. If a candidate has been elected for more than one position at the same time, which may occur in electronic voting, the highest level elected position will be the election result.

There is no quorum for the election.

Post Election: The N&E Subcommittee Chair shall keep a list of the voting members who have submitted their votes. The N&E Subcommittee Chair shall report the results of the election to the TCBD memberships, the VP-TEA. The new officers will take office on the first date of the following month after the election. A record of votes cast must be retained for post-election audit purposes by the N&E Subcommittee.

Voting:

Voting Member: A TCBD Voting Member shall be any individual who either 1) has attended (physically present or by teleconference or via electronic means for virtual TC meetings) two or more official TCBD meetings over the prior five regularly scheduled TC meetings or 2) has contributed substantially to the TCBD activities. The Voting Members of the second category should be approved by the current TCBD Chair. Proxy voting shall be permitted. Each Voting Member asking another Voting Member to vote on her/his behalf shall inform the N&E Subcommittee of this arrangement prior to the election. An actual voter shall represent no more than three proxies.

3.4 Conducting TCBD Meetings

The TCBD meetings are usually scheduled during ICC and GLOBECOM, twice a year. The meetings are open to any conference attendees. The meetings are usually announced via the TCBD email list shortly before the incoming ICC or GLOBECOM.

The TCBD Chair or a designated substitute, typically another TCBD officer, will chair the meetings. Any TCBD member can suggest items for the agenda. The TCBD Secretary will typically take the minutes. These minutes should be made available within one month of the meeting. Their availability is announced on the TCBD mailing list. Minutes can be posted on the TCBD website and open to public.

Should voting other than the TCBD officers election occur at the TCBD meeting, only members physically present or attending by teleconference have voting rights, and simple majority rules applies. If voting involves changes to the Policies and Procedures (P&P), a two-thirds majority of TCBD members physically present or attending through teleconference is required.

3.5 Maintaining Membership List

The TCBD would maintain the membership list. Entries in the list are usually generated from two primary sources: 1) the attendance sign-in list at the TCBD meetings at ICC and GLOBECOM conferences, 2) application emails.

3.6 Sub-committees

3.6.1 Operation Subcommittees

TCBD may establish several operation subcommittees which may support TCBD activities. Each sub-committee may have a chair appointed by the current TCBD Chair. Subcommittee members are also appointed jointly by the Subcommittee Chair and the current TCBD Chair.

The Committee may have several optional sub-committees:

- Membership and Publicity
- Publications
- Conference
- Awards
- Standards
- Advisory

Goals of each sub-committee are sketched as follows.

3.6.1.1 Membership and Publicity

Attract and invite active researchers in the relevant green topics to join TCBD

Increase the visibility of TCBD Suggest candidates in member elevation to the Fellow and to the Senior grades

3.6.1.2 Publications

Promote relevant journal and magazine special issues and new journals

Advise the Chair in the appointment of committee liaisons to publications sponsored by the Committee

3.6.1.3 Conferences

Promote relevant conferences, symposia and workshops in emerging topics

Promote relevant tutorials and panels in emerging topics

Advise the Chair in the appointment of Committee members to conference positions

Advise and support the Chair on the Committee sponsorship to conferences, symposia and workshops

3.6.1.4 Standards

Promote participations of the Committee in relevant standardizations

Advise the Chair in the appointment of standardizations liaisons in different standardization bodies

3.6.1.5 Services

Provide services to TCBD members

3.6.1.6 Advisory

Provide advices in TCBD operations

3.6.2 Special Interest Groups

Special Interest Groups (SIGs) are technical sub-committees proposed and established by some TCBD members and approved by the TCBD Chair to foster and develop activities in specific areas of interest to the Committee. Active Special Groups of Interest are announced through the TCBD mailing list and published on the website.

A typical SIG officers normally include one Chair, one or more Vice-Chairs and one or more Advisors. The Advisors are usually senior experts in the relevant areas. Members of any SIGs are also members of TCBD. SIG officers (usually SIG Chairs) shall report to the TCBD Chair about the activities conducted annually. The serving term of SIG officers are two years and could be renewed based on the approval of the current TCBD Chair, and the SIG officers are appointed by TCBD Chair at the beginning of the establishments of the SIGs.

The current TCBD Chair may terminate some SIG or change the officers of the SIG in case the SIG or some SIG officer does not fulfill the goal of the SIG. The termination of some SIG should be approved by a majority of members in a committee meeting.

3.6.3 Steering Subcommittee

The committee shall have a steering subcommittee composed of past TCBD chairs who will act as a consulting board to ensure continuity of the committee identity. Except past TCBD chairs, other Members of the Steering Subcommittee are appointed by the current TCBD chair. Steering Subcommittee members may be assigned various tasks, under coordination by the current TCBD Chair. Other TCBD members with outstanding record in supporting TCBD activities may be appointed as steering subcommittee members by the current TCBD Chair.

3.6.4 Other subcommittees

Other subcommittees, such as award sub-committees and Nominations & Elections (N&E) subcommittee, have been described in other section of the P&P.

3.7 Supporting Activities

As appropriate, TCBD will be active in all of ComSoc's activities. This will include ComSoc conferences (such as ICC, GLOBECOM, INFOCOM, PIMRC, Online GreenComm and WCNC, and so on.) by providing representatives to their respective Technical Program Committees, by providing for professional review of submitted papers (by soliciting such assistance from among its membership) and by organizing symposia, workshops, panels, short courses, tutorials, and so on, as deemed appropriate by ComSoc and TCBD.

Furthermore, TCBD can individually organize conferences, workshops and summer/winter schools. Also, because of the broad nature of committee activities, collaborative sessions with other committees will be sponsored and strongly encouraged. As new technologies and application areas emerge, TCBD will seek to address aspects of these topics relative to its charter, and work with both the Strategic Planning Committee and Emerging Technologies Committee.

TCBD will further support ComSoc's journals, magazines, and standards activities by soliciting volunteers as authors and editors, submitting proposals, and identifying committee members from its membership. The committee will seek ways to increase active participation of its members in information exchange related to

the charter of TCBD, such as: stimulating Feature Topics and Special Issues of ComSoc journals and magazines; and sponsoring workshops, tutorials, short courses, panel sessions, and so on.

TCBD shall also be actively involved with various IEEE standard activities. All members are encouraged to participate the IEEE standard activities. If a TCBD member needs any further information about the IEEE standard activities, he/she could contact the officers of TCBD.

The recognition and proposal of candidates for ComSoc and IEEE Best Paper and Career Awards nominations, as well as distinguished lecturer candidates, and candidates for the election to Senior Member and Fellow degrees is also part of the TCBD activities.

3.8 Budget and Expenses

The annual budget awarded by the IEEE Communications Society (ComSoc) may be spent on:

- dissemination activities (e.g., maintenance of website, newsletter, awards
- showing appreciation for volunteer support,
- other tasks deemed useful to TCBD activities.

3.9 TCBD Awards

3.9.1 Procedure for TCBD Awards

TCBD awards may include recognition awards (such as distinguished technical achievement award, outstanding young researcher award, middle-career award), publication awards, service awards, and other relevant awards. TCBD awards will be announced and given during the TCBD regular meetings.

Awardees will be selected by TCBD Award Subcommittees whose chair(s) are appointed by the current TCBD Chair.. Each Award Subcommittee will be composed of total of no less than 3 TCBD members, including the current Award Subcommittee Chair. A number of Award Subcommittees may be established for other awards which should be approved by the TCBD Steering Subcommittee.

The current award subcommittee members are not eligible for the awards they are serving for. Further, all Award Subcommittee members must formally declare any conflict of interest with a nomination and recuse themselves. If due to this rule the number of voting members in the Award Subcommittee (s) is not less than three (3), the TCBD Chair and Award Subcommittee Chair shall seek replacement members for the Subcommittee. The TCBD Award Subcommittee(s) are responsible for indicating the individuals selected to receive the awards to the TCBD Chair. All final decisions shall be made by the Award Subcommittee(s) and approved by the TCBD Chair.

Any amendments to selection criteria and the process shall be established by the TCBD Award Subcommittee Chair(s) in consultation with the respective Subcommittee. Each award will have its own nomination and selection procedure. If the Award Subcommittee considers that no candidate fulfils the established criteria, no award will be issued regardless of the call for nomination.

The reviews, voting and any deliberations of the Award Subcommittee will be strictly confidential. Most Subcommittee business will be conducted electronically and the Award Subcommittee Chair will be the

sole point of contact for all external communications. No correspondence will be sent to nominated or nominating persons or entertained during the process from any other parties. All questions, suggestions and complaints pertaining to the award selection process should be sent to the Award Subcommittee Chair(s); the current TCBD Chair will act as an Ombudsman for all matters that require the chair(s) to be excused and oversee any resolution process.

The selected award recipient(s) will be informed via email of the selection. In case the selected award recipient(s) declines the award for any reason, the award will not be given. If the recipient(s) cannot attend in person to accept the award at the designated TCBD sponsored conference, or cannot nominate someone to receive the award on their behalf, the award will be mailed to them.

3.9.2 Description for TCBD Awards

- IEEE TCBD Distinguished Technical Achievement Award
 - Nominee eligibility: The nominee is a TCBD member or TCBD collaborator (TCBD affiliate member) with distinguished technical contributions relevant to the research field of big data and/or data science, including relevant fundamental and application topics such as big data, data science, machine learning, artificial intelligence, data analytics, and so on, preferably with high degree of visibility in TCBD communities as well as big data or data science communities. Self-nomination will not be accepted. Current Award Subcommittee Members for IEEE TCBD Distinguished Technical Achievement Award are not eligible for the award. Past awardees in the last 3 years by the specified deadline in the call for nominations are not eligible for the same award.
 - Nominations must include all the following information in a single PDF file:
 - ◆ Award name
 - ◆ Nominator name, affiliation, and contact information
 - ◆ Nominee name, affiliation, and contact information
 - ◆ Citation: Give a brief citation (thirty words or less) precisely summarizing the qualified reason for the award.
 - ◆ A nomination letter including at most 4 pages supporting materials
 - ◆ At least 2 and no more than 5 support or endorsement letters from people other than the nominator – these should be collected by the nominator.
 - Nomination submission: nominations should be sent to the Award Subcommittee Chair of IEEE TCBD Distinguished Technical Achievement Award and TCBD Secretary. Please use the subject in the nomination email: "Nomination: "xxxx year" IEEE TCBD Distinguished Technical Achievement Award".
- IEEE TCBD David G. Belanger Distinguished Service Award
 - Nominee eligibility: The nominee must be a TCBD member at the time of nomination. The nominee must have been a TCBD member for a sustained period of time with significant service contributions to TCBD over that period. Self-nomination will not be accepted. Current TCBD executive officers and current Award Subcommittee Members for IEEE TCBD David G. Belanger Distinguished Service Award are not eligible for the awards. Past awardees within the last 3 years by the specified deadline in the call for nominations are not eligible for the same award.
 - Nominations must include all the following information in a single PDF file:
 - ◆ Award name
 - ◆ Nominator name, affiliation, and contact information
 - ◆ Nominee name, affiliation, and contact information
 - ◆ Citation: Give a brief citation (thirty words or less) precisely summarizing the qualified reason for the award.
 - ◆ A nomination letter including at most 4 pages supporting materials

- ◆ At least 2 and no more than 5 support or endorsement letters from people other than the nominator – these should be collected by the nominator
 - Nomination submission: nominations should be sent to the Award SubCommittee Chair of IEEE TCBD David G. Belanger Distinguished Service Award and TCBD Secretary. Please use the subject in the nomination email: "Nomination: "xxxx year" IEEE TCBD David G. Belanger Distinguished Service Award".
- IEEE TCBD Outstanding Young Researcher Award
 - Nominee eligibility: The nominee must be a TCBD member at the time of nomination. The nominee has achieved outstanding technical contributions relevant to big data or data science, including relevant fundamental and application topics such as big data, data science, machine learning, artificial intelligence, data analytics, and so on, preferably with some level of visibility in TCBD communities as well as big data or data science communities. The nominee must be within 7 years by the nomination deadline from the completion of his or her highest education at the time of nomination. Self-nomination will not be accepted. Current Award Subcommittee Members for IEEE TCBD Outstanding Young Researcher Award are not eligible for the award. Past awardees within the last 3 years by the specified deadline in the call for nominations are not eligible for the same award.
 - Nominations must include all the following information in a single PDF file:
 - ◆ Award name
 - ◆ Nominator name, affiliation, and contact information
 - ◆ Nominee name, affiliation, and contact information
 - ◆ Citation: Give a brief citation (thirty words or less) precisely summarizing the qualified reason for the award.
 - ◆ A nomination letter including at most 4 pages supporting materials
 - ◆ At least 2 and no more than 5 support or endorsement letters from people other than the nominator – these should be collected by the nominator
 - Nomination submission: nominations should be sent to the Award SubCommittee Chair of IEEE TCBD Outstanding Young Researcher Award and TCBD Secretary. Please use the subject in the nomination email: "Nomination: "xxxx year" IEEE TCBD Outstanding Young Researcher Award".
- IEEE TCBD Outstanding Mid-Career Achievement Award
 - Nominee eligibility: The nominee must be a TCBD member at the time of nomination. The nominee has achieved outstanding technical contributions relevant to big data or data science, including relevant fundamental and application topics such as big data, data science, machine learning, artificial intelligence, data analytics, and so on, preferably with some level of visibility in TCBD communities as well as big data or data science communities. The nominee must be within 15 years by the specified deadline in the call for nomination after the completion of his or her highest education, but after 7 years by the specified deadline in the call for nomination after the completion of his or her highest education, Self-nomination will not be accepted. Current Award Subcommittee Members for IEEE TCBD Outstanding Mid- Career Achievement Award are not eligible for the award. Past awardees within the last 3 years by the specified deadline in the call for nomination are not eligible for the same award.
 - Nominations must include all the following information in a single PDF file:
 - ◆ Award name
 - ◆ Nominator name, affiliation, and contact information
 - ◆ Nominee name, affiliation, and contact information
 - ◆ Citation: Give a brief citation (thirty words or less) precisely summarizing the qualified reason for the award.
 - ◆ A nomination letter including at most 4 pages supporting materials
 - ◆ At least 2 and no more than 5 support or endorsement letters from people other than the nominator – these should be collected by the nominator
 - Nomination submission: nominations should be sent to the Award SubCommittee Chair of IEEE TCBD Outstanding Mid-Career Achievement Award and TCBD Secretary. Please use the subject in the

nomination email: "Nomination: "xxxx year" IEEE TCBD Outstanding Mid-Career Achievement Award".

- IEEE TCBD Best Paper Awards
 - IEEE TCBD Best Influential Paper Awards: The nominated paper should be published within 10 years and at least 2 years before the specified deadline in the call for nominations.
 - ◆ IEEE TCBD Best Influential Conference Paper Award
 - ◆ IEEE TCBD Best Influential Journal/Magazine Paper Award
 - ◆ IEEE TCBD Best Influential Survey Paper Award
 - IEEE TCBD Best New Paper Awards: The nominated paper should be published within 2 years before the specified deadline in the call for nominations.
 - ◆ IEEE TCBD Best New Conference Paper Award
 - ◆ IEEE TCBD Best New Journal/Magazine Paper Award
 - ◆ IEEE TCBD Best New Survey Paper Award
 - Nomination eligibility: At least of one of co-authors of the nominated papers should be a TCBD member or TCBD collaborator (TCBD affiliate member). The nominated paper should be outstanding relevant to big data or data science, including relevant fundamental and application topics such as big data, data science, machine learning, artificial intelligence, data analytics, and so on. There are two categories of IEEE TCBD Best Paper Awards, IEEE TCBD Best Impact Paper Awards and IEEE TCBD Best New Paper Awards. Self-nomination will not be accepted. Current Award Subcommittee Members for IEEE TCBD Best Paper Awards are not eligible for the award.
 - Nominations must include all the following information in a single PDF file:
 - ◆ Award name
 - ◆ Nominator name, affiliation, and contact information
 - ◆ The information of the co-author who is a TCBD member or TCBD collaborator (TCBD affiliate member)
 - ◆ The publication information of the nominated paper with Digital Object Identifier (DOI).
 - ◆ The pdf file of the nominated paper
 - ◆ A nomination letter including at most 4 pages supporting materials
 - Nomination submission: nominations should be sent to the Award Subcommittee Chair of IEEE TCBD Best Paper Awards and TCBD Secretary. Please use the subject in the nomination email: "Nomination: "xxxx year" IEEE TCBD Best Paper Awards - XXX", where XXX should be replaced by a specific type of IEEE TCBD Best Paper Awards.
- IEEE TCBD Industrial Achievement Award
 - Nominee eligibility: The nominee is a TCBD member or TCBD collaborator (TCBD affiliate member) with outstanding industrial or standardization achievement relevant to the research field of big data and/or data science, including relevant fundamental and application topics such as big data, data science, machine learning, artificial intelligence, data analytics, and so on, preferably with high degree of visibility in TCBD communities as well as big data or data science communities. Self-nomination will not be accepted. Current Award Subcommittee Members for IEEE TCBD Industrial Achievement Award are not eligible for the award. Past awardees within the last 3 years by the specified deadline in the call for nominations are not eligible for the same award.
 - Nominations must include all the following information in a single PDF file: ,
 - ◆ Award name
 - ◆ Nominator name, affiliation, and contact information
 - ◆ Nominee name, affiliation, and contact information
 - ◆ Citation: Give a brief citation (thirty words or less) precisely summarizing the qualified reason for

the award.

- ◆ A nomination letter including at most 4 pages supporting materials
- ◆ At least 2 and no more than 5 support or endorsement letters from people other than the nominator – these should be collected by the nominator
- Nomination submission: nominations should be sent to the Award SubCommittee Chair of IEEE TCBD Industrial Achievement Award and TCBD Secretary. Please use the subject in the nomination email: "Nomination: "xxxx year" IEEE TCBD Industrial Achievement Award".

3.10 Information Dissemination Activities

TCBD will maintain an Internet website. The Chair would assign designated member to maintain the web site. Announcements distributed to the TCBD's membership, notably meeting agendas and meeting minutes, opportunities for membership participation in TCBD sponsored activities, as well as election-related issues, will be made available on the TCBD website. TCBD will also provide at least one email exploder as an alternative for timely dissemination of information, and to welcome useful information from others. Normally, only TCBD members are allowed to post messages in the TCBD mailing list. Non-TCBD members posting messages in the TCBD mailing list should be approved by the TCBD Chair.