



20th IEEE International Conference on Business Informatics (IEEE CBI 2018)
July 11–14, 2018, Vienna, Austria

<https://cbi2018.big.tuwien.ac.at>
<http://www.cbi-series.org>

The IEEE Conference Series on Business Informatics is the leading international forum for state-of-the-art research in Business Informatics. The 20th anniversary edition, IEEE CBI 2018, held in beautiful and summery Vienna, calls for submissions in the multidisciplinary field of Business Informatics, and welcomes a multitude of theoretical and practical perspectives and mind-sets on today's challenges of the digital transformation.

Words from the Programme Chairs

"Meet in Vienna, enjoy an open, friendly and stimulating atmosphere of discussion and knowledge sharing, discuss your research with peers, and take momentum back home for future work."

Call for Papers

The IEEE CBI series encourages a broad understanding of Business Informatics research, and intends to further its many different facets, theoretical foundations and experiential body of knowledge. In doing so, the CBI series has proven to be a fertile ground for research with high impact, and a hub for multidisciplinary research with contributions from Management Science, Organisation Science, Economics, Information Systems, Computer Science, and Informatics.

In line with this, the CBI series aims to provide a forum for researchers and practitioners from various fields and backgrounds that contribute to the construction, use and maintenance of information systems and their organisational use contexts. A dedicated goal of the CBI series of conferences is to bring together researchers from different fields and disciplines to stimulate discussion, synergy and collaboration. Accordingly, CBI conferences use a format that enables in depth discussions among researchers during the conference. The benefits of such a cross-disciplinary conception are contrasted by a challenge: Authors who submit a paper take the risk to be assessed by standards that are different from those they are used to in their own research communities. The conference organisation accounts for this challenge by involving renowned track chairs and programme committee members from different fields and disciplines.

List of Tracks

- Enterprise Modelling, Engineering and Architecture
- Business Process Management
- Information Systems Engineering
- Recommender Systems and Information Retrieval
- Information Management
- Business Analytics and Business Data Engineering
- Industry 4.0 (Industry Applications)
- Government 4.0 (E-Government)
- Business Innovation
- General Topics

Submission

<https://easychair.org/conferences/?conf=cbi2018>

Manuscripts must be in English and are restricted to **10 pages in IEEE 2-coloumn template (A4)**.

In the submission form, select the conference track that best fits with your manuscript's topic, or choose "General Topics" if not covered by the tracks.

Review process is **double-blind**; your names and affiliations must not be explicitly listed in the manuscript. However, you should keep all cited references in the submission's bibliography intact.

Further information for submission:

<https://cbi2018.big.tuwien.ac.at/submission/>

Important Dates

Full paper submission
→ April 15, 2018

Notification of paper acceptance
→ May 15, 2018

Camera-ready paper submission
→ May 29, 2018

Accepted papers will be published as **IEEE proceedings** and submitted for integration into the **IEEE Digital Library**.

Selected papers will be invited to submit an extended version to a special issue of the **EMISA Journal** (subject to separate review).

Enterprise Modelling, Engineering and Architecture

Track Co-Chairs

- **Monique Snoeck**, KU Leuven, Belgium
- **Jürgen Jung**, Frankfurt University of Applied Sciences, Germany
- **Hans-Georg Fill**, University of Vienna, Austria

Topics

- Methods for Enterprise Modelling, Engineering and Architecture Management
- Enterprise and Business Transformation
- Business-IT Alignment
- Enterprise Architecture Management and Governance
- Languages and Tools
- Reference Models and Ontologies

Business Process Management

Track Co-Chairs

- **Selmin Nurcan**, Université Paris 1 - Pantheon - Sorbonne, France
- **Peter Fettke**, Institute for Information Systems (IWi) at the DFKI, Germany

Topics

- Business Process Analysis, Modelling and Execution
- Business Process Engineering and Reengineering
- Discovery of Business Processes
- Similarity and Variability of Business Processes
- Multi-Perspective Business Process Modelling
- Social / Actor-driven BPM
- Compliance of Business Processes
- Monitoring of Business Processes
- Quality of Business Processes
- Quality of Business Process Models
- Evaluation Approaches for Process Modelling Methods
- Robotic Process Automation
- Blockchain-based Process Monitoring
- Predictive Business Process Monitoring

Information Systems Engineering

Track Co-Chairs

- **Saïd Assar**, Institut Mines-Télécom, France
- **Oscar Pastor**, Universitat Politècnica de València, Spain

Topics

- Requirements Engineering
- Method Engineering
- Software Testing
- Information Security and Risk
- Human-Computer Interaction
- Social Computing and Social Network Analysis
- User-Centred Approaches
- Collaborative Computing
- Model-driven approaches to IS engineering
- Domain Specific Models and Languages
- IS Engineering in the Public Domain
- Empirical Approaches to IS Engineering

Recommender Systems and Information Retrieval

Track Co-Chairs

- **Dietmar Jannach**, University of Klagenfurt, Austria
- **Markus Zanker**, University of Bozen, Italy

Topics

- Ranking and prediction algorithms
- Business value of recommendation and retrieval systems
- Evaluation of recommendation, personalization and retrieval systems
- Conversational and interactive approaches
- Knowledge-based techniques
- Group recommendations
- Case studies and novel application domains

Information Management

Track Co-Chairs

- **Nils Urbach**, University of Bayreuth, Germany
- **Till Winkler**, Copenhagen Business School, Denmark

Topics

- IT Strategy and Business/IT Alignment
- IT Management in the Digital Age
- IT Governance, Risk, and Compliance
- IT Organization and Agile IT Setups
- Enterprise Architecture Management
- Project and Project Portfolio Management
- IT Sourcing and Cloud Computing
- IT Performance Measurement and Value of IT
- IT Innovation Management
- Innovative Models and Tools for Strategic IT Management

Business Analytics and Business Data Engineering

Track Co-Chairs

- **Barbara Dinter**, TU Chemnitz, Germany
- **Jorge Sanz**, National University of Singapore, Singapore
- **Christian Janiesch**, Julius-Maximilians-Universität Würzburg, Germany

Topics

- Business Intelligence
- Advanced analytics, prediction, causal forecasting, and visualization
- Big data veracity and quality, uncertainty and risk management
- Business data integration
- Business models for innovative use of big data
- Corporate Knowledge Management
- Decision making, forecasting, and fraud detection using big data
- Social media analytics for business data engineering
- Decision Support Systems
- Knowledge Management
- Information and Value Management
- Open Data
- Innovative Applications of Business Intelligence, Business Analytics and Big Data
- Strategic Management of Business Intelligence, Business Analytics and Big Data

Industry 4.0 (Industry Applications)

Track Co-Chairs

- **Manuel Wimmer**, TU Wien, Austria
- **Georg Weichhart**, PROFACTOR GmbH, Pro2Future GmbH, Austria

Topics

- I4.0 Architectures
- Enterprise Interoperability and Integration
- Modelling Languages for I4.0
- Managing Evolution and Variability
- Business Intelligence and Data Analytics for I4.0
- Web Technologies for I4.0
- Interoperability of Legacy Systems
- DevOps for Production Systems
- Decision Support for Design-time and Run-time
- Human-Machine Interactions in I4.0
- Empirical studies: Case Studies, Experience Reports, Experiments, ...

Government 4.0 (E-Government)

Track Co-Chairs

- **Jörg Becker**, WWU Münster, Germany
- **Robert Krimmer**, Tallinn University of Technology, Estonia

Topics

- Methods and concepts for modelling, standardization, reuse, integration and improvement of administrative processes
- Shared services, web services and portal networks: convergence and exchange of administrations in e-government
- Development of new electronic administrative services
- New roles and competences in a digitized administration and the role of training and lifelong learning
- Methods, concepts and tools for strengthening e-participation: opportunities and benefits for an active and self-dependent civil society
- Open Government and Open Data
- Data-driven government: opportunities and risks
- Internet of Things and its impact(s) on services in the public sector

Business Innovation

Track Co-Chairs

- **Pierre-Jean Barlatier**, Luxembourg Institute of Science and Technology, Luxembourg
- **Anne-Laure Mention**, RMIT University, Australia

Topics

- Approaches to leveraging digital technologies for service innovation and competitive advantage
- Integrating business models with enterprise models
- Interaction between business model innovation and service innovation
- Theories, methods and tools for designing innovation in business models and services
- Digital transformation and disruptive business innovation

Selected papers of the track "Business Innovation" will be invited to submit to a special issue of the Open Access [**Journal of Innovation Management**](#) (subject to separate review).

General Topics

Track Co-Chairs

- **Erik Proper**, Luxembourg Institute of Science and Technology, Luxembourg
- **Stefan Strecker**, University of Hagen, Germany
- **Kristina Rosenthal**, University of Hagen, Germany

Topics

The General Topics track intends to solicit submissions not covered by other CBI 2018 tracks or having a cross-thematic scope in the field of Business Informatics. Please check the topics of the other CBI 2018 tracks before submitting your paper to the General Topics track. Possible topics include, but are not limited to:

- Methodological Reflections and Research Methods
- Digital Work and Life
- Service Science and Engineering
- Human-Computer-Interaction and User Interfaces
- Learning and Teaching Business Informatics