



21st IEEE International Conference on Business Informatics (IEEE CBI 2019)

July 15–17, 2019, Moscow, Russia

<http://www.cbi2019.moscow/>

<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 21st IEEE CBI 2019, held in huge, old and interesting city Moscow, 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.

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, Organization 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 organizational 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 crossdisciplinary 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
- Artificial intelligence for Business
- Information Management
- Business Analytics and Business Data Engineering
- Industry 4.0 (Industry Applications)
- Business Innovations and Digital Transformation
- Data-Driven Business Applications
- General Topics

Submission

<https://edas.info/newPaper.php?c=25431>

Manuscripts must be in English and are restricted to **10 pages in IEEE 2-column 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://cbi2019.moscow/>

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).

Important Dates

Short abstract submission

→ January, 31st, 2019

Full paper submission

→ March, 1st, 2019

Notification of paper acceptance

→ May 10, 2019

Camera-ready paper submission

→ **June 1, 2019**

Enterprise Modelling, Engineering and Architecture

Track Co-Chairs

- **Peter Fettke**, Saarland University, Germany
- **Frederik Gailly**, Ghent University, Belgium

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

- **Manfred Reichert**, University of Ulm, Germany
- **Patrick Delfmann**, University of Koblenz/Landau, 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

- **Barbara Weber**, TU Denmark, Denmark

- **Arnon Sturm**, Ben Gurion University of Negev, Israel

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

Artificial Intelligence for Business

Track Co-Chairs

- **Jos van Hillegersberg**, University of Twente, Netherlands
- **Carsten Felden**, University of Resources Freiberg, Germany

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

- **Alexander Boukhanovsky**, ITMO, Russia
- **Ilias O. Pappas**, Norwegian University of Science and Technology, Norway

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
- Big Data Infrastructure
- Big Data Governance
- Metadata Governance
- Data Quality Strategies

Business Analytics and Business Data Engineering

Track Co-Chairs

- **Antonio Cordella**, LSE, UK
- **Christian Grimme**, Westfälische Wilhelms-Universität Münster, 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

- **Daniel Beverungen**, University of Paderborn, Germany
- **Christian Janiesch**, University of Würzburg, Germany

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, ...

Business Innovations and Digital Transformation

Track Co-Chairs

- **Dirk Meissner**, HSE, Russia
- **Juliana Sutanto**, LUMS, UK

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
- Technology-enabled new business models
- Challenges in digital transformation

Data-Driven Business Applications

Track Co-Chairs

- **Jeffrey Parsons**, University of Newfoundland, Canada
- **Martin Matzner**, University of Erlangen-Nürnberg, Germany

Topics

- Data-centric business models
- Business Value Creation from Big Data
- Big Data as a Service
- Consumerization of Big Data Analysis
- Big Data Analytics for Small Business Enterprises (SMEs)

- Data-Driven Applications in Business, Finance, Transportation, Retailing, Telecomm.

General Topics

Track Co-Chairs

- Prof. Dr. Dr. h.c. Dr. h.c. **Jörg Becker**, Speaker for WWU-Centrum Europa, ERCIS - European Research Center for Information Systems, Westfälische Wilhelms-Universität Münster, Germany
- Prof. Dr. **Dmitriy Novikov**, Corresponding Member of Russian Academy of Sciences, Director of V.A. Trapeznikov Institute of Control Sciences of Russian Academy of Sciences, Moscow, Russia

Topics

The General Topics track intends to solicit submissions not covered by other CBI 2019 tracks or having a cross-thematic scope in the field of Business Informatics. Please check the topics of the other CBI 2019 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