OOP 2019 – Call for Papers

The Conference for Software Architecture

OOP 2019, January 21 – 25, 2019
ICM – International Conference Center Munich, Germany
www.oop-konferenz.de

"Care for the Future"

Dear Colleagues,

We invite you to submit proposals. With five days of in-depth sessions on a variety of topics, we seek for half-day tutorials (Mon), full-day tutorials (Mon & Fri) and regular sessions lasting 90, 60, or 45 minutes (Mon-Thu).

Your proposals should either be technical and oriented towards software architects or targeted at project leaders / decision makers who work in an enterprise environment. The participants expect an excellent overview of the state-of-the-art in modern software engineering. The sessions should focus either on promising concepts for the future or on cutting-edge techniques that are suitable for practical use today.

This year's conference theme is **Care for the Future**: How can you align the design, architectures, processes, ways of collaboration, and techniques with disruption? How can you make your products and strategies sustainable for the future? How can you find the right talent, keep the employees, and ensure the way of working are supportive for the future? And how can AI and IT in general cope with our responsibility for the society?

We seek submissions on the following topic areas, ideally emphasizing the theme **Care for the Future**:

➢ **Smart Software Architecture by Michael Stal**:
Smartness seems to be an essential and relevant driver for software development. This track provides architectural guidelines and best practices for how smartness affects software architecture design & engineering activities, especially how features such as data analytics, AI, smart user experience, machine learning can be considered when creating the system architecture.

➢ **Modern Architecture by Eberhard Wolff:**
Modern approaches such as event-driven architectures, serverless and microservices approach getting in production faster differently. This track introduces modern architectural approaches based on practical experience. We cover: Agile architecture, Structured Monoliths, Events, Cloud-native, Serverless, Microservices, Self-contained Systems, Architecture & Organization.

➢ **Enterprise Architecture driving Digital by Wolfgang Keller:**
IT Enterprise Architecture, Business Architecture and also EAM have a reputation of being a bit outdated "software police" being no longer suitable for an agile present. This track covers topics from the regulatory needs to the successful use of EAM in digital transformation initiatives: EAM for Digital Initiatives, EAM at Speed, Agile & Lean EAM, Business Architecture, news about EAM Frameworks (e.g. TOGAF 9.2), regulatory needs for EAM (COBIT 5), the changing job of the Enterprise Architect, the ideal Enterprise Architect: Techie / Entrepreneur or both?

➢ **Modern Programming by Nicolai Josuttis:**
Programming is still the foundation for all work as software developers and system architects. Yet, many things have changed: new programming languages, new paradigms, more parallelization & more powerful tools. Topics include: Modern

programming paradigms like concurrency, modern programming languages like D, Dart, Go, Kotlin, R, Rust, Swift, Java9, Modern C++, …; comparisons of programming languages and -paradigms; remarkable utilities (no product placements)

➢ **Distributed Ledgers & Crypto Platforms by Stefan Tilkov:**
"Cryptocurrencies" supported by distributed ledgers and programmable crypto platforms are the new "hot thing". We'll look at foundational technologies, consider benefits and downsides of various implementation approaches. Topics include: Blockchain, Bitcoin, Ethereum, Cryptocurrencies, Programmable crypto platforms, Distributed ledgers, Public vs. permissioned ledgers, Proof of work & alternative consensus algorithms, Use cases for distributed ledgers & crypto platforms, Blockchain case studies.

➢ **Business Agility by Thorsten Janning:**
Introducing Business Agility is more than adapting Scrum, LeSS, or Kanban. It means to align the whole business to agile core values: Decentralize decision making; Self-organizing teams; Flow optimization by limiting Work-in-Progress; Variability in uncertain design areas. So, Business Agility is an operating system for the whole organization. We welcome conceptual approaches & experience reports.

➢ **Real Artificial Intelligence by Marc Bless:**
Artificial Intelligence finally starts walking after 7 decades of crawling. This track provides an overview of real AI applications and gives an outlook on what to expect in the near future for AI. Developers & managers get insights on: real AI applications & usage scenarios, how to implement AI, UX challenges with AI voice assistants, foundations of neuroscience & psychology for AI developers.

➢ **Social Integration by Olaf Lewitz:**
We focus on integrating different aspects of software-creating systems such as the following aspects: human behavior & software use, organization & software design (Conway's law applied), people & process, product & process, people & product, user & customer & business & IT &… - thus integrating silos in minds, organizational structures, and software.

➢ **SocITy-FOO: IT Society & Future Evolution by Johannes Mainusch:**
The way we consume our narratives and the way we communicate & build relationships changed. But how fast does that change our society? And does easier communication let us become a better, more caring, more flexible society? Does trust become easier? Will we care more for the needs of others? Or will better communication infrastructure be merely a fertile ground for new businesses and future market places? Is IT just cool or is IT game-changing? We seek talks that combine technology, us as people, and future-society.

➢ **User Experience & Product Discovery by Susanne Mühlbauer:**
Solutions, products, systems, and services will look different in future. Markets become buyer's markets, disruptive innovations strike companies unexpectedly. Digitalization and AI provides unforeseen possibilities. We look for case studies, methods and ideas addressing these challenges, like: Design Thinking & Lean Startup, Digital Design, UX/UI/ Customer Centricity, Creativity Techniques, Prototyping & Experiments, Sustainability, Requirements Engineering & Innovation, Product Management.

➢ **Testing & Quality by Peter Zimmerer:**
Effective and efficient software & system development requires superior testing approaches and a commitment to quality. This Track provides practical guidance how to address the increasing demand for reliability of systems, cost efficiency, and market needs on speed, flexibility, and sustainability, as well as shows how testing is transforming in the digitalization era. Experts from different domains present new directions in the field, explain approved strategies and practices, and share valuable project experiences how to make it happen.

In all areas, we particularly welcome **case studies** that describe experience in practice from all application domains including, but not limited to **transportation** (aerospace, railway, automotive, ...), **telecommunications, finance & insurance, industrial automation, mobile computing, government**, as well as **medical** and **life sciences**.

Instructions for submissions (Submission deadline: July 2nd, 2018)

Please submit your proposal(s) using the online form at: https://www.conftool.pro/oop2019/

You will find all instructions in the online form.
Presentations can be in **German** or **English**: **Write your submission in the language of your presentation**.

All proposals must include the following detailed information for consideration
(Fields marked with an asterisk (*) are mandatory fields)

*Information on Speaker(s): Name(s), Email(s) and Organization(s)

*Title of Proposal: (max. 100 characters, including spaces), titles with more than 100 characters are truncated

*Short Abstract (max. 550 characters, including spaces), abstracts with more than 550 characters are truncated

  Extended Abstract (ca. 2000-2500 characters)

*Target Audience (max. 70 characters)

*Prerequisites (max. 70 characters)

*Level (Introductory, Practicing, Expert

*Session Style

*Projected learning outcomes / lessons learned for participant

  Process / mechanics (rough agenda of the session)

  Presented before?

*Tags

*Familiarity of the Author with the Topic

*Biography
  session with 1 speaker: 450 - max. 500 characters
  Session with 2 speakers: each speaker max. 200 characters

  Books

  Remarks

Acceptance Criteria
We will use the following criteria for evaluating the submissions:
- **Quality of content and innovativeness:** The sessions should be relevant and if possible enable the participants to apply the learning in their day-to-day work. Conceptual submissions are possible, but in order to be accepted they should be outstanding. Experience reports or extended case studies are a great boost for acceptance.
- **Presentation form**: We prefer sessions that allow the audience to get engaged and to actively participate, although we understand that this does not work for all topics.
- **Speaker**: The sessions should be presented in an interesting, vivid, and entertaining way. Speakers who can prove these skills have a higher chance of acceptance.
- **Attractiveness for participants:** Sessions with clear goals (especially within the core target groups) and exclusively for the participants (no repetitions from other

conferences) will be rated higher. So will sessions that focus on this year's theme, Care for the Future.

Notification of Acceptance
The decisions regarding which proposals will be included in the final program won't be made before the end of August. In some cases, we may contact you for additional information before making our final decision.

Thank you very much for contributing to the success of OOP 2019 by submitting your proposal. If you have any questions, do not hesitate to contact us. Please feel free to pass on this call for papers to your colleagues.

Best regards,

Program Chair
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