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This volume is dedicated to the memory of Camil Demetrescu and Eelco Visser.
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Message from the Program Chairs

Started in 1987, ECOOP is Europe’s oldest programming conference, welcoming papers on all practical and theoretical investigations of programming languages, systems and environment providing innovative solutions to real problems as well as evaluations of existing solutions. Papers were submitted to one of four categories: Research for papers that advance the state of the art in programming; Reproduction for empirical evaluations that reconstructs a published experiment in a different context in order to validate the results of that earlier work; Experience for applications of known techniques in practice; and Pearl for papers that either explain a known idea in an elegant way or unconventional papers introducing ideas that may take some time to substantiate. ECOOP is a selective venue, with acceptance, by traditio, capped at 25% of all submissions and re-submissions. The chairs thank the Program Committee: A. Donaldson, B. Hermann, M. Sridharan, S. Alimadadi, A. Bieniusa, S. Blackburn, S. Blazy, E. Brady, Lr Bulej, S. Chiba, A. Cohen, E. Darulova, W. De Meuter, D. Dreyer, S. Drossopoulou, S. Ducasse, S. Erdweg, S. Fowler, J. Franco, D. Garg, S. Gay, J. Gibbons, E. Gonzalez Boix, P. Haller, R. Hirschfeld, T. Hosking, D. Lea, M. Luján, M. Madsen, A. Møller, J. Noble, M. Odersky, B. C.d.S. Oliveira, K. Ostermann, T. Petricek, A. Potanin, M. Rapoport, M. Rigger, G. Salvaneschi, T. Schrijvers, M. Serrano, A. Silva, E. Tosch, L. Tratt, V. Vasconcelos, E. Visser, T. Wrigstad, T. Xie, J. Xue, E. Zucca. We thank the Extended Review Committee: Q. Stiévenart, C. Koparkar, K. Narasimhan, S. Singh, J. Yang, L. De Simone, M. Jimenez, T. Nakamaru, J. Immanuel Brachthäuser, O. Bračevac, J. Norlinger, D. He, C. Zhang, M. Krušl, V. Dort, V. Horky, W. Ye, B. Rehman, K. Marussy, P. Koronkevich, H. Dang, A. Tondwalkar, I. Kabir, A. Renda, M. Chiari, O. Flickiger, P. Maj, C. Hsieh, M. Raab, M. Schröder, D. Justo, L. Schütze, P. Weisenburger, E. D’Osualdo, S. Keuchel, J. An, S. Keidel, P. Rein, T. Mattis, A. Gorla, S. Winter. This year saw a number of innovations:

- **Multiple rounds.** ECOOP has two main rounds of submissions per year. Each round supports both minor and major revisions. Major revisions are handled in the next round (either the same year or the next) by the same reviewers.

- **No format or length restrictions.** In order reduce friction for authors, papers can come in any format and at any length. This applies to submisisions, final versions must abide by the publisher’s requirements.

- **Arfitacts and Papers together.** Every submitted paper can be accompanied with an artifact, submitted 10 days after the paper. Both submission are evaluated in parallel by overlapping committees as members of the artifact evaluation committee were invited to served on the conference review committee.

- **Journal First/Last.** Papers can be submitted either one of three associated journals and be invited to present at the meeting. Furthermore, some accepted papers can be forward to journals.

Overall, we found these innovations to have worked well. Clearly more experience is needed to draw any broader conclusions. We do encourage future chair to keep experimenting.

Karim Ali  Jan Vitek
ECOOP has a long-standing tradition of offering artifact evaluation dating back to 2013. For the first time this year, though, the artifact evaluation process involved every single paper submission to ECOOP 2022, rather than just accepted papers, and happened in parallel with the paper review process. Besides providing feedback on the artifacts irrespective of paper acceptance, evaluation results were made available to the technical PC. Artifact submissions could thus provide more insights on the technical contributions described in the papers, and help to improve the overall review process.

To handle the higher review load that such a process entails, we recruited an artifact evaluation committee that was almost twice as large as for last year’s ECOOP and included both experienced and novice artifact reviewers. The submission deadlines for artifacts were just 10 days after the paper deadlines for both submission rounds. We received a total of 57 submissions (39 for R1 and 18 for R2). After a kick-the tires review and author response phase, during which authors had the opportunity to clarify or address technical issues with their submissions, each submitted artifact was reviewed by at least three committee members, leading to an overall review load of 4–5 artifact reviews per committee member.

Following the positive experience with adopting ACM’s artifact badges for ECOOP 2021, we adopted the same badging policies for ECOOP 2022. The artifact evaluation committee positively evaluated 46 submissions (33/13 for R1/R2) as functional or reusable, out of which 25 belong to papers to appear in the technical program of ECOOP 2022. Seven submitted artifacts (4/3 in R1/R2) that did not pass the bar for the functional and reusable badges, were found eligible for the available badge, 2 of which are associated with papers accepted for presentation at ECOOP 2022 (both from R1).

To streamline the artifact review process and to decouple artifact from paper review aspects, we asked authors to submit documentation of explicit claims in a pre-specified format that the artifact evaluation committee checked the artifacts against. At the same time, the PC could assess the importance of these claims for the submitted papers as a frame of reference for the strength of support for the paper that an artifact can provide. This separation greatly facilitated the artifact evaluation committee’s discussions regarding which badges to award. The details of this process are documented in the call for artifacts (https://doi.org/10.5281/zenodo.6553744), the artifact submission template (https://doi.org/10.5281/zenodo.5720714), and an artifact review template (https://doi.org/10.5281/zenodo.5750738) that we provided as guidance for artifact reviewers in addition to prior community guidance linked from the call for artifacts.

The smooth and thorough artifact evaluation process would have not been possible without the 39 members of the committee, who handled the artifact review workload and contributed to the technical PC discussions with great dedication. For this reason, we would like to thank them for their valuable work and the inspiring discussions.

Alessandra Gorla
Artifact Evaluation Co-chair
IMDEA Software Institute

Stefan Winter
Artifact Evaluation Co-chair
Ludwig-Maximilians-Universität München
Welcome back to a physical conference – after two years of pandemic, we are again able to hold a non-virtual conference. Corona has changed the world – there certainly will be more virtual interaction than before – witness VCOOP. Will physical conferences survive this seismic shift in ways to interact? Well, perhaps if the traditional conference format is adjusted to the new times. The ECOOP 2022 team has done a tremendous job of reigniting ECOOP – a huge thanx to them and their efforts – which have appeared to pay off, as both paper submission, attendance, and the number of workshops has increased. AITO will continue to explore new ways of adapting to the changing realities that scientific conferences face today – as spearheaded by the ECOOP 2022 organizers – we look forward to a really good conference with lots of great paper, personal interaction, excellent keynotes – including a Dahl-Nygaard Senior winner, Dan Ingalls. Enjoy the conference – and modern-day Berlin.

Eric Jul
AITO President
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