5th International Computer Programming Education Conference

ICPEC 2024, June 27–28, 2024, Lisbon, Portugal

Edited by

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Contents

Preface
André L. Santos and Maria Pinto-Albuquerque 0:vii

Program Committee
..... 0:ix

List of Authors
..... 0:xi

Invited Talk

Hedy: An Inclusive, Multi-Lingual, and Gradual Programming Language
Felienne Hermans 1:1–1:1

Automated Assessment

A Domain-Specific Language for Dynamic White-Box Evaluation of Java Assignments
Afonso B. Caniço and André L. Santos 2:1–2:13

Seven Years Later: Lessons Learned in Automated Assessment
Bruno Pereira Cipriano and Pedro Alves 3:1–3:14

Adaptation of Automated Assessment System for Large Programming Courses
Marek Horváth, Tomáš Kormaník, and Jaroslav Porubän 4:1–4:11

Teaching Approaches

Kumon-Inspired Approach to Teaching Programming Fundamentals
Ivone Amorim, Pedro Baltazar Vasconcelos, and João Pedro Pedroso 5:1–5:13

An Experience with Adaptive Formative Assessment for Motivating Novices in Introductory Programming Learning
Jagadeeswaran Thangaraj, Monica Ward, and Fiona O'Riordan 6:1–6:12

Promoting Deep Learning Through a Concept Map-Building Collaborative Activity in an Introductory Programming Course
João Paulo Barros 7:1–7:12

Scientific Whispers: Mapping Innovative Pedagogies in STEAM and Programming Education
Margarida Antunes and António Trigo 8:1–8:12

Teaching Programming Courses with Digital Educational Escape Rooms (DEER): A Conceptual Proposal Conducive to Learning by Trial and Error
Antonio Trigo and Margarida Antunes 9:1–9:8

Educational Program Visualizations Using Synthetized Execution Information
Rodrigo Mourato and André L. Santos 10:1–10:8

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Games and Gamification

Client-Side Gamification Engine for Enhanced Programming Learning
Ricardo Queirós, Robertas Damaševičius, Rytis Maskeliūnas, and Jakub Swacha .. 11:1–11:12

Game Development: Enhancing Creativity and Independent Creation in University Course
Lenka Bubenkova and Emilia Pietrikova 12:1–12:13

Learning Paths: A New Teaching Strategy with Gamification
Filipe Portela 13:1–13:12

Code Review for CyberSecurity in the Industry: Insights from Gameplay Analytics
Andrei-Cristian Iosif, Ulrike Lechner, Maria Pinto-Albuquerque, and Tiago Espinha Gasiba 14:1–14:11

Implementing a Digital Twin for a Robotic Platform to Support Large-Scale Coding Classes
Michael Heeney, Kelly Androutsopoulos, and Franco Raimondi 15:1–15:12

Software Security

To Kill a Mocking Bug: Open Source Repo Mining of Security Patches for Programming Education
Andrei-Cristian Iosif, Tiago Espinha Gasiba, Ulrike Lechner, and Maria Pinto-Albuquerque 16:1–16:12

Improving Industrial Cybersecurity Training: Insights into Code Reviews Using Eye-Tracking
Samuel Riegel Correia, Maria Pinto-Albuquerque, Tiago Espinha Gasiba, and Andrei-Cristian Iosif 17:1–17:9

Generative Artificial Intelligence

Using ChatGPT During Implementation of Programs in Education
Norbert Baláž, Jaroslav Porubän, Marek Horváth, and Tomáš Kormaník 18:1–18:9

Exercisify: An AI-Powered Statement Evaluator
Ricardo Queirós 19:1–19:6

Use of Programming Aids in Undergraduate Courses
Ana Rita Peixoto, André Glória, José Luís Silva, Maria Pinto-Albuquerque, Tomás Brandão, and Luís Nunes 20:1–20:9

Authoring Programming Exercises for Automated Assessment Assisted by Generative AI
Yannik Bauer, José Paulo Leal, and Ricardo Queirós 21:1–21:8

Preface

ICPEC 2024, the 5th International Computer Programming Education Conference took place on 27 and 28 of June in Lisbon, Portugal. Continuing the already established tradition of a warm and collaborative community promoting the exchange of perspectives and advances in computer science education challenges, we attracted more internationally diverse participants than in previous editions.

We were honored to have Professor Felienne Hermans delivering the invited talk "Hedy: an Inclusive, Multi-lingual, and Gradual Programming Language." Felienne opened the conference by highlighting the importance of promoting computational thinking and programming for everyone, regardless of gender, language, or culture. These matters were discussed in the context of developing Hedy (`https://hedy.org`), a programming environment that she developed over the recent years.

The conference featured twenty accepted and presented papers, comprising thirteen full papers and seven short papers (ongoing work). These papers were organized into five thematic sections in the context of programming education: Automated Assessment, Teaching Approaches, Games and Gamification, Software Security, and Generative Artificial Intelligence.

We thank the Program Committee members for their effort in reviewing the papers with care and quality, and all the participants for contributing to lively discussions.

Lisboa, 31 July 2024
André Leal Santos and Maria Pinto-Albuquerque

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