

ICCBR 2020 Doctoral Consortium

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Preface

This year marks the twelfth anniversary of the ICCBR Doctoral Consortium (DC). The DC was designed to nurture PhD candidates by providing them with opportunities to obtain feedback on their research, future work plans, and career objectives from senior case-based reasoning (CBR) researchers and practitioners. We are proud to carry on the tradition with a cohort of nine doctoral students from six different countries.

PhD candidates who applied to the program submitted summaries of their doctoral research. In their research summaries, they detailed the problems they are addressing, outlined their proposed research plans, and described progress to date. Accepted applicants were paired with mentors who helped them to refine their research summaries in light of reviewer feedback. The updated research summaries, which appear in this volume, were then orally presented at the ICCBR DC on June 9, 2020 in our first virtual event conducted fully online.

This year's participants presented a broad array of ongoing CBR research. Christopher Bartlett presented his work on using a CBR approach that couples clinical covariate data with epigenetic data in an analysis of breast cancer. Ciara Feely studied the use of recommender systems to support marathon runners during training and in the race itself. Marta Plaza-Hernández discussed how CBR can be used in the management of submerged archaeological complexes by serving as a support tool for decision making. Eugenia Pérez-Pons explained her research on finding the most efficient capital investment for Spanish companies not operating in the stock market. Luis R. Rodríguez Oconitrillo discussed how a CBR system can be designed to capture and represent what a judge understands of the information contained in a legal case file. Xiaomeng Ye presented an approach to robust adaptation that employs a chain of adapted cases or rules to form an adaptation path. Nicolas Lasolle discussed the development of a dedicated tool that employs a range of methods to populate and search an RDF database representation of a digital Humanities corpus. Niloufar Shoeibi described an approach in which a recommender system uses information extracted from social media to inform fundamental stock market analysis. Finally, Ashish Upadhyay presented his work on employing hybrid textual CBR and deep learning approaches for natural language generation from structured data.

We particularly want to thank all of the students, mentors, and program committee members who worked so hard to make the DC a success.