

3-2019

Developing a Contemporary and Innovative Operating Systems Course

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Perugini, Saverio and Wright, David J., "Developing a Contemporary and Innovative Operating Systems Course" (2019). *Computer Science Faculty Publications*. 180.

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Developing a Contemporary and Innovative Operating Systems Course

Extended Abstract

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ABSTRACT

This birds-of-a-feather provides a discussion forum to foster innovation in teaching operating systems (os) at the undergraduate level. This birds-of-a-feather seeks to generate discussion and ideas around pedagogy for os and, in particular, how we might develop a contemporary and innovative model, in both content and delivery, for an os course—that plays a central role in a cs curriculum—and addresses significant issues of misalignment between existing os courses and employee professional skills and knowledge requirements. We would like to exchange ideas regarding a re-conceptualized course model of os curriculum and related pedagogy, especially in the areas of mobile OSs and Internet of Things; concurrent programming and synchronization; and cloud computing and big data processing.

CCS CONCEPTS

• **Social and professional topics** → **Computing education; Computer engineering education**; • **Software and its engineering** → *Operating systems*.

KEYWORDS

Course re-design; operating systems pedagogy.

ACM Reference Format:

Saverio Perugini and David J. Wright. 2019. Developing a Contemporary and Innovative Operating Systems Course: Extended Abstract. In *Proceedings of the 50th ACM Technical Symposium on Computer Science Education (SIGCSE '19)*, February 27-March 2, 2019, Minneapolis, MN, USA. ACM, New York, NY, USA, 1 page. <https://doi.org/10.1145/3287324.3293734>

ACKNOWLEDGMENTS

This material is based upon work supported by the National Science Foundation under Grant Numbers 1712406 and 1712404. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

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SIGCSE '19, February 27-March 2, 2019, Minneapolis, MN, USA

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ACM ISBN 978-1-4503-5890-3/19/02.

<https://doi.org/10.1145/3287324.3293734>