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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.

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