





Giorgio Farina Isolation in hardware virtualization

Tutor: Marcello Cinque Cycle: XXXVII Year: First



My background

- MSc degree in Computer Engineering (October 2021)
- Research group: DESSERT
- PhD start date: 01/11/2021
- Scholarship type: CINI





Research field of interest

Cloud computing

Cloud is a computing paradigm which aims to provide reliable, customized and QoS guaranteed dynamic computing environments for end-users

Hardware virtualization has become the most widely used form of virtualization in building modern cloud infrastructures

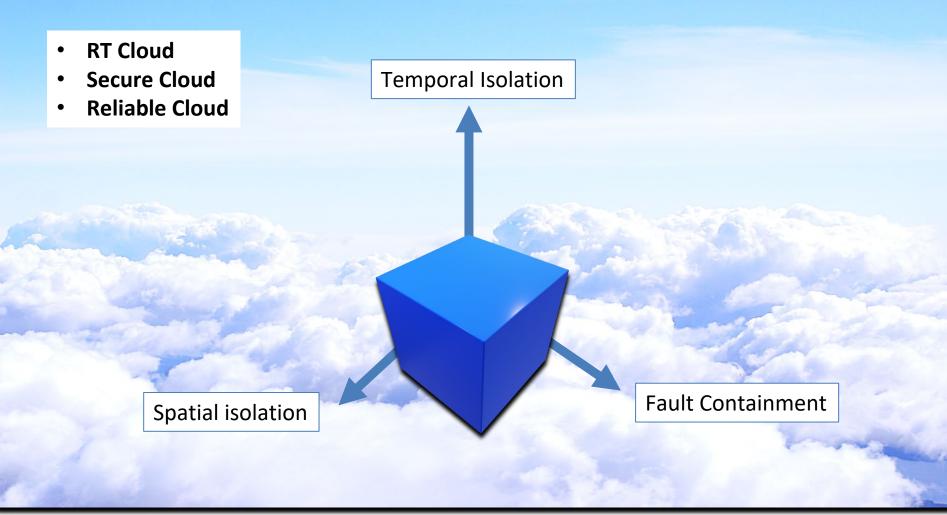
Hardware virtualization is the allocation in time and space of the hardware resources (or emulated hardware resources)



Worldwide. 01/01/2004 - 01/11/2022. Web Search.



Research field of interest





Summary of study activities

Ad hoc PhD courses:

- Virtualization technologies and their applications
- Statistical data analysis for science and engineering research

Courses borrowed from MSc curricula :

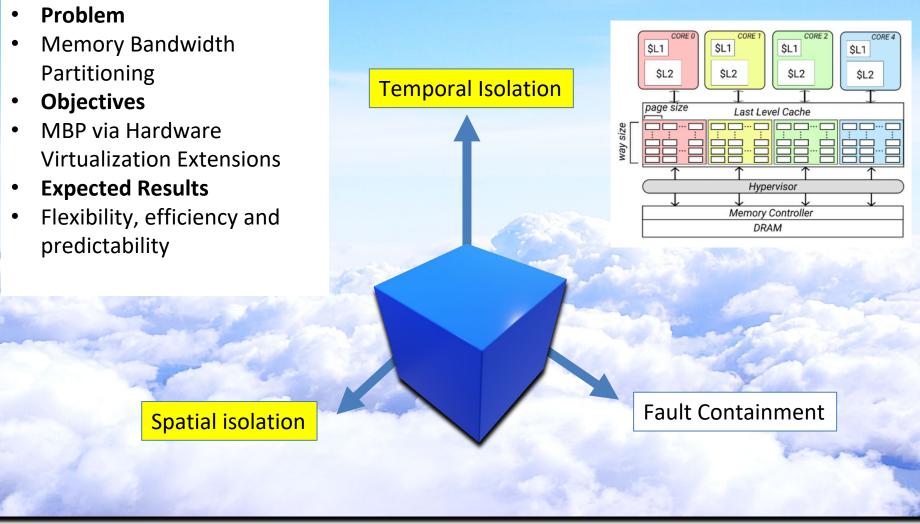
- Software Security
- Real-Time Industrial Systems

Conferences / events attended:

 IEEE 25th International Symposium On Real-Time Distributed Computing (ISORC 2022), Västerås, Sweden, 17/05/2022 to 18/05/2022, presenting author

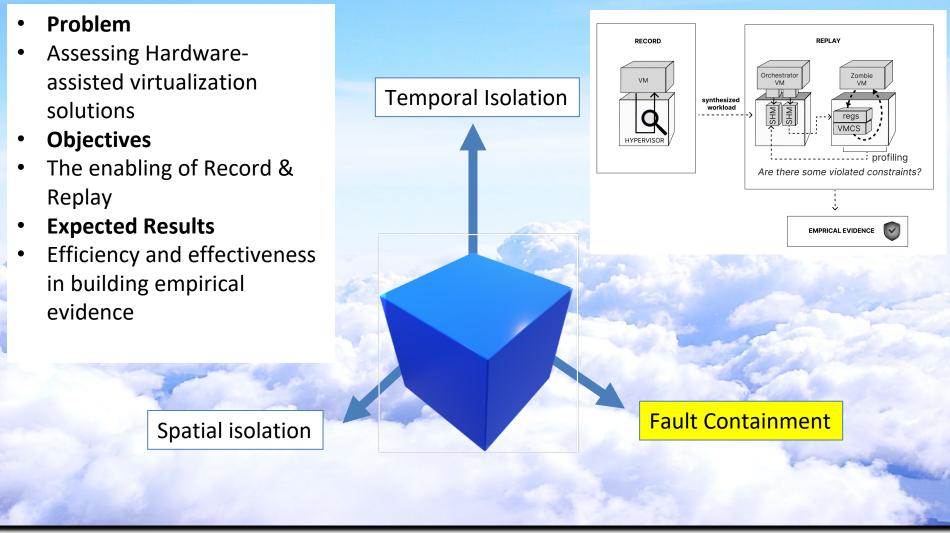


Research activities



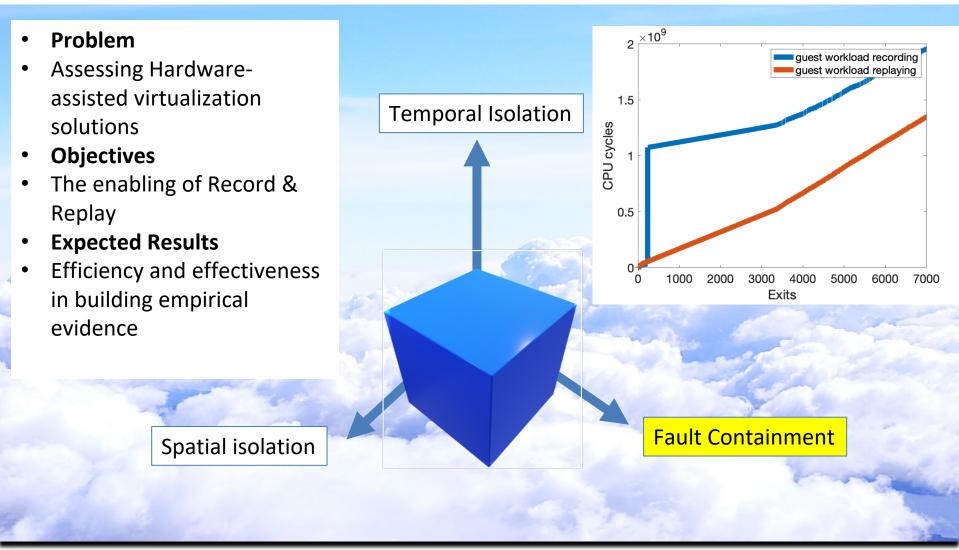


Research activities





Research activities





Products

	"Assessing Intel's Memory Bandwidth Allocation for resource limitation in real-time
[C1]	systems," G. Farina, G. Gala, M. Cinque and G. Fohler,
	IEEE 25th International Symposium On Real-Time Distributed Computing (ISORC
	2022), Full Paper
	"RunPHI: Enabling Mixed-criticality Containers via Partitioning Hypervisors in
	Industry 4.0"
[C2]	M. Barletta, M. Cinque, L. De Simone, R. Della Corte, G. Farina, D. Ottaviano
	33rd IEEE International Symposium on Software Reliability Engineering (ISSRE
	2022), Fast Abstracts
	"AID4TRAIN: Artificial Intelligence-Based Diagnostics for TRAins and INdustry
[[]]	4.0., "
[C3]	Cinque, M., Della Corte, R., Farina, G., Rosiello, S.
	EDCC 2022, Workshops.
	"An unsupervised approach to discover filtering rules from diagnostic logs,
	Cinque, M., Della Corte, R., Farina, G., Rosiello, S.
[C4]	33rd IEEE International Symposium on Software Reliability Engineering (ISSRE
	2022), Industry Track

