Generalized strictly periodic scheduling analysis, resource optimization, and implementation of adaptive streaming applications

Niknam, S.

Citation

Version: Publisher's Version
License: Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden
Downloaded from: https://hdl.handle.net/1887/135946

Note: To cite this publication please use the final published version (if applicable).
The handle http://hdl.handle.net/1887/135946 holds various files of this Leiden University dissertation.

**Author:** Niknam, S.

**Title:** Generalized strictly periodic scheduling analysis, resource optimization, and implementation of adaptive streaming applications

**Issue Date:** 2020-08-25
List of Publications

Journal Articles


Peer-Reviewed Conference Proceedings


Curriculum Vitae

Sobhan Niknam was born on February 28, 1990 in Tehran, Iran. He obtained his B.Sc. degree in computer engineering from Shahed University, Tehran, Iran, in 2012 and the M.Sc. degree in computer engineering from the Iran University of Science and Technology, Tehran, in 2014. In March 2015, he joined the Leiden Embedded Research Center, part of the Leiden Institute of Advanced Computer Science (LIACS) at Leiden University, as a Ph.D. candidate. His research work, which resulted in this thesis, was funded by NWO under project rCPS3. Besides his work as a researcher, he had been teaching assistant for several courses such as Digital Techniques, Computer Architecture, Operating Systems, and Embedded Systems and Software. Since February 2020, he has been working as a postdoctoral researcher at the University of Amsterdam.
Acknowledgments

Finally, my long academic journey as a PhD student comes to its end. The past five years have been quite an intense and unforgettable experience, full of all sorts of overwhelming emotions - happiness, frustration, anxiety, inspiration, and a lot of hope! Finishing this hard, but the enjoyable journey would not have been possible without the help, guidance, and assistance from many extraordinary people whom I would like to express my gratitude.

First of all, I would like to thank my supervisor, Dr. Todor Stefanov, for giving me the chance to pursue my doctoral research at Leiden University and for his support, patience, and effort throughout my PhD study. Thank you, Todor, especially for teaching me how to write a good academic paper and spending indefinite time and tremendous efforts on proof-reading my papers and finally my thesis. Secondly, I was very fortunate to be a part of the Leiden Embedded Research Center (LERC) where I had nice colleagues: Emanuele Cannella, Jelena Spasic, Di Liu, Teddy Zhai, Peng Wang, Hongchan Shan, Erqian Tang, Svetlana Minakova. I really enjoyed working with you. I hope you are all doing well and wish you great success in your current and future endeavors. Emanuele, thank you especially for your support at the early stage of my PhD; I never forget about your encouragement and pleasing words about being persistent and not giving up. Jelena and Di, thank you for your help, exchanging ideas, suggestions about my research, and nice discussions we had. I would like to give my special thanks to Peng. I was lucky to have such a wonderful fellow PhD almost from the beginning of my study, who helped by brainstorming, providing feedback, and most importantly being an exceptional friend. We had unforgettable coffee breaks, talking about our daily life and all PhD-related matters, such as our ongoing research and feelings - fear, happiness, failure, and success. It has been a pleasure and privilege to work with you, Peng!

Further, during my stay in the Netherlands, I have been lucky to make some good friends, Seyed Ali Mirsoleimani, Hadi Ahmadi Balef, Hadi Arjmandi-Tash, Seyed Kamal Sani, Soroush Rasti, and many others, whom
I am so grateful for their help in many ways. Without them, I would never feel being like at home in the past five years. A big thanks goes to Hadi Ahmadi Balef and his family for the joyfull gatherings and nice trips we have had.

Last but not least, I would like to express my thanks and gratitude to my family, and in particular, my parents, who have believed in me, helped me to pursue my dream and, enabled me to become the person I am today. My thanks also go to my parents-in-law for their understanding and supports. The biggest "thank you" goes to my beloved wife, Saeedeh, who sacrifices herself to let me finish my PhD. Thank you for all support, encouragement, and love you have unconditionally given me especially during this extremely difficult time in our lives. Words can not express my gratitude for all what you have done, may God reward you in a thousand folds, Saeedeh. My finall thanks go to my little boy, Amirali, who has brought joyfull time to our family.

Sobhan Niknam
June, 2020
Leiden, The Netherlands