

**Institute of Systems Science
National University of Singapore**

**GRADUATE CERTIFICATE
INTELLIGENT REASONING SYSTEMS**

Workshop Project Guide (5/5)

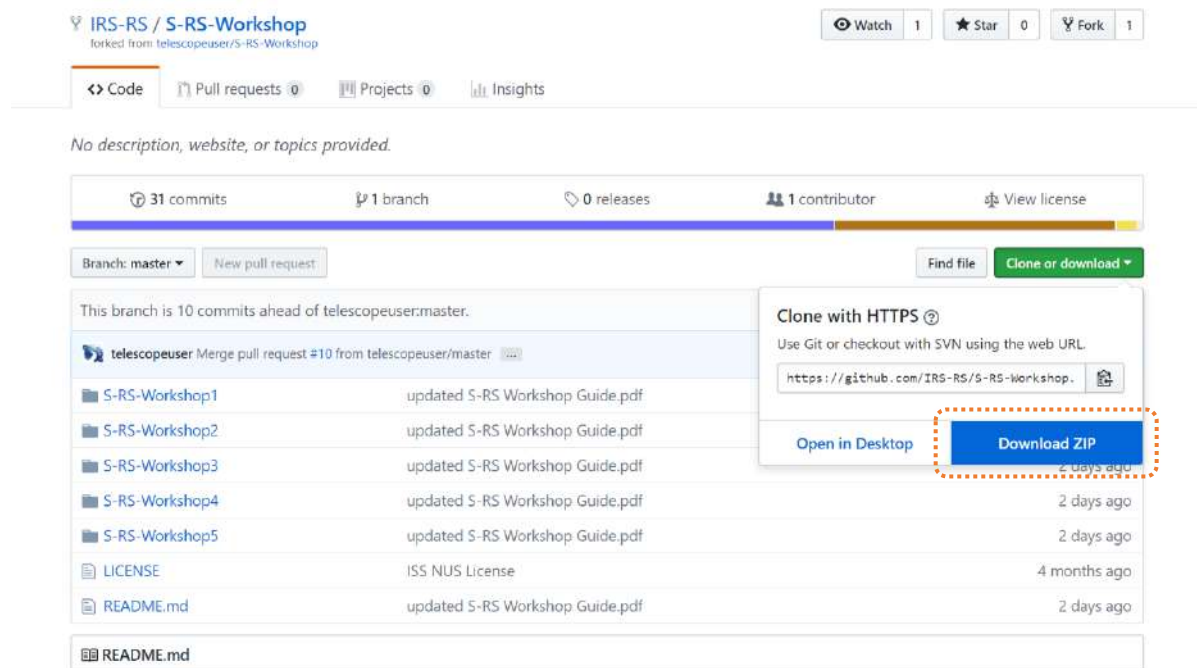
Subject: Reasoning Systems

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Workshops & References <https://github.com/IRS-RS/S-RS-Workshop>



Virtual Machine Workstation <http://bit.ly/iss-vm>

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1. Workshop 5 – Hybrid Reasoning Systems

1.1. Case Study – Integrated Circuits Lot-Oven Scheduling and Dispatch Optimizer

[Manufacturing] Integrated Circuits Lot-Oven Scheduling and Dispatch Optimizer



https://github.com/IRS-RS/IRS-RS-2019-03-09-IS01PT-GRP-Hex-Sdot_Scheduling_and_Dispatch_Optimization_Tool

- 1) Read above project page; watch video introduction.
- 2) Read project report to understand system design.
- 3) Install the system by following Installation & User Guide.
- 4) Identify an area/opportunity for improvement; suggest relevant technique(s); no deliverable required for submission.

😊 Congratulations!

You have completed today's challenging workshop!

We hope you enjoyed the challenging learning and found this course useful!

We also hope to bring your more learning experiences in the near future!

See you soon!

Course Manager / Lecturer



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- Mr. GU Zhan 顾瞻 (Sam) lectures Master of Technology programme in the areas of data science, machine intelligence, and soft computing. Prior to joining ISS, he was in New Zealand running start-up, delivering artificial intelligence training programs. Sam had also spent many years in financial and engineering sector wearing versatile hats: data scientist, project manager, consultant, system manager and software engineer.
- He devotes himself into pedagogy, and is very passionate in inspiring next generation of artificial intelligence lovers and leaders.

Course Lecturer



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- Dr. ZHU Fangming is with the Institute of Systems Science of the National University of Singapore (NUS-ISS). He currently lectures in the Master of Technology programme in the areas of evolutionary computation, neural networks and data mining. Prior to joining ISS, he was a postdoctoral fellow in the Department of Electrical and Computer Engineering at NUS. He also worked as a research and development engineer in an IT company before pursuing his PhD studies at NUS. His research interests include evolutionary computation, neural networks, data mining, machine learning, and pattern recognition. Fangming was a recipient of the prestigious Singapore Millennium Foundation (SMF) Postdoctoral Fellowship in 2003. He has also published many papers in leading journals and conferences.

Course Lecturer



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- Ms. FAN Zhen Zhen has been with Institute of Systems Science, NUS, since 2006. She currently lectures in the Master of Technology programme in the areas of case-based reasoning, text mining, KBS development, hybrid KBS, and formal specification. Prior to joining ISS, she was a senior research engineer at the Institute for Infocomm Research working in the areas of machine translation and natural language processing. Her current research interests lie in text mining and computational linguistics.

The End of Workshop Project Guide