

SHASHANK SHEKHAR

PERSONAL INFORMATION

Nationality Indian
Website <https://shekharsai.github.io/>
Address Apt. 25, 18 Rue, Notre Dame, Toulouse, 31400
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WORK EXPERIENCE

Research Associate
Oct. -, 2021 LAAS-CNRS, France
Robotics and InteractionS team at LAAS, Toulouse
working with Dr. Rachid ALAMI on *human aware planning* and *human robot interaction*

Postdoctoral Researcher
Mar. Sept., 2021 Ben-Gurion University of the Negev, Israel
The Department of Computer Science
worked with Prof. Ronen I BRAFMAN on *multi-agent planning* and *decision making under uncertainty and partial observability*

Infosys Limited
2011-2012 System Engineer, INFOSYS LIMITED, India
Java and C# developer, Mangalore DC, Karnataka

EDUCATION

Doctor of Philosophy (Ph.D.)
2016-2021 Ben-Gurion University of the Negev, Israel
The Department of Computer Science
Thesis: *Collaborative Multi-Agent Planning with Partial Observability and Interacting actions*
Advisor: Prof. Ronen I BRAFMAN

Master of Science (M.S.) by Research
2013-2016 Indian Institute of Technology Madras, Chennai
Department of Computer Science & Engineering
Thesis: *Learning and Strengthening Meta-Heuristics in Plan-Space Planning*
Advisor: Prof. Deepak KHEMANI

Bachelor of Technology
2007-2011 Guru Gobind Singh Indraprastha University
Department of Information Technology, CBPGEC Delhi
Information Technology (*with distinction*)

SKILLS

Software Java, C#, C++, Python, Linux, ROS, OpenCV, PCL, Pytorch, TensorFlow, Git

Research Interests Multi-Agent Systems, Planning/Pathfinding, Robotics, Decision Making Under Uncertainty, Human-Robot Interaction, Reinforcement Learning, Cooperative Planning or Automated Intersections for Intelligent Robots/Vehicles

1. JOURNAL PUBLICATION(S)

J. Artif. Intell. Res.
2021 *Safe multi-agent pathfinding with time uncertainty*
Authors: Tomer SHAHAR, **Shashank SHEKHAR**, Dor ATZMON, Abdallah SAFFIDINE, Brendan JUBA, and Roni STERN

2020 *Representing and planning with interacting actions and privacy*

Artif. Intell.

Authors: **Shashank** SHEKHAR and Ronen I. BRAFMAN

2. CONFERENCE PUBLICATION(S)

2021 *Verifying plans and scripts for robotics tasks using performance level profiles*

ICAPS

Authors: Alexander KOVALCHUK, **Shashank** SHEKHAR, and Ronen BRAFMAN

2021 *Improved knowledge modeling and its use for signaling in multi-agent planning with partial observability*

AAAI

Authors: **Shashank** SHEKHAR, Ronen I. BRAFMAN, and Guy SHANI

2019 *A factored approach to deterministic contingent multi-agent planning*

ICAPS

Authors: **Shashank** SHEKHAR, Ronen I. BRAFMAN, and Guy SHANI

2018 *Representing and planning with interacting actions and privacy*

ICAPS

Authors: **Shashank** SHEKHAR and Ronen I. BRAFMAN

2016 *Learning and tuning meta-heuristics in plan space planning*

ArXiv (informal)

Authors: **Shashank** SHEKHAR and Deepak KHEMANI

2015 *Improving heuristics on-the-fly for effective search in plan space*

KI (German Conference on AI)

Authors: **Shashank** SHEKHAR and Deepak KHEMANI

3. WORKSHOP PUBLICATION(S)

2020 *Signaling in contingent multi-agent planning*

EpiP @ICAPS 2020

Authors: **Shashank** SHEKHAR, Ronen I. BRAFMAN, and Guy SHANI

2020 *ROS-POMDP - A Platform for Robotics Planning using PLPs and RDDDL in ROS*

PlanRob @ICAPS 2020

Authors: Or WERTHEIM, Ronen I. BRAFMAN, **Shashank** SHEKHAR, Tal FEINER, and Igal PINSKY

2020 *Safe multi-agent pathfinding with time uncertainty*

WoMAPF @IJCAI 2020

Authors: Tomer SHAHAR, **Shashank** SHEKHAR, Dor ATZMON, Abdallah SAFFIDINE, Brendan JUBA, and Roni STERN

SYNERGISTIC ACTIVITIES

SN journal of CS

(2022) · I am a Reviewer.

AAAI

(2021, 2022) · I served on the Program Committee.

DMAP @ICAPS

(2020) · I co-organized the Workshop on Distributed and Multi-Agent Planning.

REFERENCES

Ronen I. Brafman

Ph.D. Advisor · Professor, The Dept. of Comp. Sci., BGU of the Negev, Beer Sheva, Israel, *Email:* brafman@cs.bgu.ac.il

Guy Shani

Ph.D. Committee Member · Faculty member, The Dept. of SISE, BGU of the
Negev, Beer Sheva, Israel, *Email:* shanigu@bgu.ac.il

Roni Stern

Ph.D. Committee Member · Faculty member, The Dept. of SISE, BGU of the
Negev, Beer Sheva, Israel, *Email:* roni.stern@gmail.com

May 30, 2022