Moin Hussain Moti

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Summary

Masters Student at IIIT-Hyderabad. Interested in learning new technologies and frameworks, and experienced in building real-life applications combining prominent features of various systems. Research interests include Artificial Intelligence, Game Theory, Blockchains and recently Spatio-temporal databases. Enjoys customizing, trying various Linux OS(s) and open-source apps. And a vim super-nerd at heart.

Education

International Institute of Information Technology, Hyderabad   *CGPA: 8.6*

B.Tech + M.Sc. in Computer Science and Engineering   *July 2015 - June. 2020*

- Recipient of Research Award for the Academic Year 2018-19
- Included in the prestigious Dean's List (2015-16, 2018-19)

Publications

FaRM: Fair Reward Mechanism for Information Aggregation in Spontaneous Localized Settings   *Full Paper*

Moin Hussain Moti, Dimitris Chatzopoulos, Pan Hui, Sujit Gujar   *August 2019*

Proceedings of the Twenty-Eighth International Joint Conference on Artificial Intelligence (IJCAI). Pages 506-512.

Civic Crowdfunding for Agents with Negative Valuations and Agents with Asymmetric Beliefs   *Full Paper*

Sankarshan Damle, Moin Hussain Moti, Praphul Chandra, Sujit Gujar   *August 2019*

Proceedings of the Twenty-Eighth International Joint Conference on Artificial Intelligence (IJCAI). Pages 208-214.

Aggregating Citizen Preferences for Public Projects Through Civic Crowdfunding   *Short Paper*

Sankarshan Damle, Moin Hussain Moti, Praphul Chandra, Sujit Gujar   *May 2019*

Proceedings of the 18th International Conference on Autonomous Agents and MultiAgent Systems (AAMAS). Pages 1919-1921.

Work Experience

Prof. Dimitris Papadias, Hong Kong University of Science and Techonology (HKUST)   *Hong Kong*

Research Assistant   *Jan. 2020 - Present*

- Research in spatio-temporal databases (Ongoing work)

Symlab, Hong Kong University of Science and Techonology (HKUST)   *Hong Kong*

Research Intern   *June 2019 - Aug. 2019*

- Designed a protocol for secure and private information aggregation using inherent blockchain properties
- Developed an Ethereum Decentralized Application (DApp) on Android Framework to implement the above protocol.

Symlab, Hong Kong University of Science and Techonology (HKUST)   *Hong Kong*

Research Intern   *May 2018 - July 2018*

- Performed an extensive literature survey of existing Information Aggregation (IA) Mechanisms, which included identifying all relevant characteristics of any IA mechanisms and distinguishing all existing mechanisms based on the characteristics.
- Formulated a new settings, called *Spontaneous Localized Settings* (SLS), where location specific queries are answered spontaneously.
- Defined fairness in reward distribution with respect to SLS and devised a new IA mechanism for SLS, where all agents are rewarded fairly.

Internatinal Institute of Information Techonology, Hyderabad   *Hyderabad, India*

Teaching Assistant   *August 2017 - May 2019*

- Introduction to Game Theory (Spring 2018-19)
- Distributed Trust and Blockchains (Fall 2018-19, Spring 2017-18)
- Operating Systems (Fall 2017-18)

Notable Projects

Block in the Hole   *PC Game*

A 3D game similar to BLOXORG with multiple levels and soundtrack.   *C++, OpenGL*

Ultimate Tic Tac Toe   *AI Bot*

A 4x4x4 tic-tac-toe bot made by using Minimax alpha beta pruning.   *Python*