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Mining Software Repository to Investigate Socio-Technical Congruence in Software Engineering Projects

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Abstract: Software development has evolved to become more complex and distributed. This highlights the importance of coordination between developers, which is known to impact development performance. Measuring developer coordination is complex but being able to understand its role in software engineering projects requires an accepted way of measuring it. One approach used to conceptualize and measure coordination is known as 'Socio-Technical Congruence' (STC), which is the fit between required coordination and actual coordination measured as the proportion of actual coordination activities that occurred relative to the number of coordination activities that should have taken place (that is, required coordination). Research to-date suggests that STC is a useful predictor of development task performance in software projects. This talk exposes the audience on the basic concepts of STC and also will discuss the impact of STC in software engineering projects.

Bio: Shukor Sanim Mohd Fauzi is a Deputy Rector (Research and Industrial Linkage) at UiTM Perlis Branch, and also a faculty member of Faculty of Computer and Mathematical Sciences, Universiti Teknologi MARA, Perlis Branch, Malaysia. Previously, he has held Visiting Fellow position at Universitas Airlangga, and Visiting Researcher position at Universitas Islam Riau. He obtained his PhD in Software Engineering from the University of New South Wales (UNSW), Australia. His area of specialization includes software engineering, empirical software engineering, mining software repository, social network analysis, socio-technical congruence, computer supportive collaborative work, and software process. He has received more than 16 research grants (internal and external grants) totaling more than RM1,500,000. He has published more than 130 scientific publications and has won more than 60 medals at national and international exhibition. He also is the editor for 5 books including "Software Process Improvement and Management: Approaches and Tools for Practical Development". He received several recognitions from national and international institutions, including Anugerah Tokoh Berpotensi 2020 (Distinguished Academician Award), Anugerah Jaringan Antarabangsa 2020 (International Linkages Award 2020), Anugerah Penerbitan Jurnal Berindeks 2020 (Indexed Journal Publication Award 2020), Anugerah Penulis Prolifik (Sains dan Teknologi) 2020 (Most Prolific Author Award - Science and Technology 2020), etc. He actively participated in many international conferences as a reviewer and Technical Programme Committee, and also a reviewer for national and international journals. He involved in many professional activities including Technical Committee Software Engineering for Standard and Industrial Research Institute of Malaysia (SIRIM), Malaysia Software Engineering Interest Group (MySEIG) and, Big Data Malaysia Group, and also is a Chairman of Northern Region Big Data Research Group. More of his information can be found on his website: https://sites.google.com/site/ssmfonlineportfolio/in-person_1