OSCAE.Initiative

(Open Source Computer Aided Engineering)

Colloquium: Open Source CAE (OSCAE)

Tuesday 15th May 2018
14:15-16:00
OSCAE.Initiative Laboratory (C24-407)
Faculty of Mechanical Engineering, UTM

OSCAE.Initiative and IT Management are holding a short colloquium "*Open Source CAE (OSCAE)*". It will cover the development of self-contained Computer-Aided Engineering (CAE) environment as versatile computing platform for academic teaching, engineering R&D and professional consulting works in mechanical engineering, using free and Open Source (OS) software packages.

An ensemble of computing tools for solving engineering problems in mechanics of solids & fluids is categorized and customized into the familiar *modus operandi* of geometry preparation, solving the discrete PDE and post-processing. Those interested in writing computer programs for their engineering problems will be introduced to programming tools, numerical libraries and clones of popular commercial scientific tools (Matlab, Maple & Mathematica) through Octave, Scilab and Maxima. Complementary tools for graphics & video manipulation, remote computing & comm, text processing, technical typesetting and multimedia are also included.

- Attendees get to *feel & test-drive* a fully functioning OSCAE environment running on Linux operating system.
- A *one-to-one correspondence* OSCAE environment built around Windows 10 will be on display.
- A similar environment, albeit limited in the total number of tools running on the *single-board computer* (SBC) Raspberry Pi, will complete the lineup.

Who Should Attend?: Students, practicing engineers and scientists who are interested in peeking into the world of open source scientific computing tools—a journey of discovery to explore and test-drive. With very little monetary constraint, this can be a great incentive to possibly adopt!

Registration Fee: Not applicable.

Limited seating: 30

Date/Time: 15th May 2018/14:15–16:00

Venue: OSCAE.Initiative Laboratory (C24-407),
Faculty of Mechanical Engineering, UTM

Speaker:
Dr. Abu Hasan ABDULLAH

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