

Aveo Shoes Bring Home Awards from South Korea to UGM Students


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Shoes made by UGM students that can prevent ankle contracture in people who suffer from paralysis have won silver medals in the *Seoul International Invention Fair 2018* and *Special Award* from King Abdulaziz University, held from 6-9 Desember in Seoul, South Korea.

The Aveo shoes were designed by a students team consisting of Muhammad Fahmi Husaen and Widiyanto (Computer and Information Systems), Naufal Gugus Priambadha (Mechanical Engineering), Septia Dini Rahayu and Danang Ma'ruf (Instrumentation Technology), Danar Aulia Hasan and Danar Aulia Husnan (Metrology and Instrumentation), and supervising lecturer, Budi Sumanto, S.Si. M.Eng.

Muhammad Fahmi Husaen, team chairman, said Aveo was aimed to prevent ankle contracture and to move the legs according to physiotherapy standards using automatic control mechanism through smartphones via bluetooth. "The Aveo system has been developed based on microcontroller and installed with servo motor that is programmed in accordance with ankle physiotherapy," said Fahmi to journalists on Wednesday (26/12).



He said Aveo was also installed with Mechanomyogram (MMG) to measure the level of muscle stiffness when the shoes were moved to estimate the shoe motions. “Testing without sensor has proved that Aveo shoes can move the ankle and function as a physiotherapy substitute,” he said.

Meanwhile, *Seoul International Invention Fair* is the forum to acknowledge innovative works from around the world. The event was followed by 633 innovators from 30 countries while Indonesia sent 40 innovators to the event.

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