Present and Future Technology of Underwater Drone

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In the presentation, the concept of underwater drone (UG), classification, and the purpose of drone research are generally explained. Also, component technology and research areas of the UG technology, which are modeling, control, navigation, communication, manipulation, energy, hull design, and autonomy are presented. In addition to these, the past and current research state of international UGs including those of Korea are presented. Also, the research contents of KIAL lab in KMOU are presented.

Finally, the future and present industrial situation and the future technology of the UG are briefly presented.

Experience:

- PhD of North Carolina State University

- Professor of Korea maritime and Ocean University

- Head of Research Institute of industrial technology of KMOU (2015-2016)

- President of Korea marine robot technology society (2015-2016)

- Editorial board of Int. J. of Ocean System Engineering(2012-2014)

- Editorial board of Korean society of ocean engineering(2014-2018)

- Editorial board of Korean society of marine engineering(2014-2016)