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Research

My main research area is mission-critical networked systems. I have a background in teletraffic theory, and I have collaborated with the Dept. of Automatic Control since many years in this area. Currently, my main research is focused on Industry 4.0, Control over the Cloud, and Compute architectures for 5G and beyond.

Awards

CELTIC Next IMMINENCE

Kihl, M.

Swedish Government Agency for Innovation Systems (Vinnova): SEK1,957,860.00
2021/07/15 → 2023/03/31

Projects

ELLIIT Project B05: 6G wireless, sub-project: vehicular communications

Kihl, M., Tärneberg, W. & Chamideh, S.

2021/01/01 → 2025/12/31

Broadband Communications: TRAMMS

Höst, S., Andersson, J. A., Ödling, P. & Kihl, M.

2007/01/01 → 2009/12/31

IPNQSIS: CELTIC-IPNQSIS

Kihl, M., Bür, K., Aurelius, A. & Andersson, J. A.

Swedish Government Agency for Innovation Systems (Vinnova)
2010/12/12 → 2013/01/31

ELLIIT Project A16: Control-as-a-Service: Resilient feedback control systems for Industry 4.0 based on Commercial-Off-The-Shelf components and cloud platforms

Kihl, M., Tärneberg, W., Cuthbert, E. & Fitzgerald, E.

2021/01/01 → 2022/12/31

Sec4Factory: Cyber Security for Next Generation Factory

Gehrmann, C., Kihl, M., Hell, M., Fitzgerald, E., Toorani, M., Fitzgerald, E., Tärneberg, W. & Akbarian, F.

Swedish Foundation for Strategic Research, SSF

2018/04/01 → 2023/03/31

E! Celtic-Plus 5G PERFECTA

Kihl, M., Fitzgerald, E. & Tärneberg, W.

Swedish Government Agency for Innovation Systems (Vinnova)
2018/08/27 → 2020/12/31

EIT_EFRAIM Eco system for future media distribution

Aurelius, A., Du, M., Larsson, R. & Kihl, M.

2012/01/01 → 2014/12/31

EIT_ELLIIT:CVAN Cross-Layer Design of VANETs for Traffic Safety

Abbas, T., Tufvesson, F., Kihl, M. & Bür, K.

2010/01/01 → 2015/12/31

EIT_IPNQSIS IP Network Monitoring for Quality of Service Intelligent Support

Aurelius, A., Höst, S., Andersson, J. A. & Kihl, M.
1900/01/01 → 2016/12/31

EIT_NOTTS Next generation over-the-top multimedia services

Larsson, R. & Kihl, M.
2013/01/01 → 2015/12/31

EIT_VR CLOUD Cloud Control

Papadopoulos, A. V., Robertsson, A., Åkesson, J., Årzén, K., Maggio, M., Dellkrantz, M., Tärneberg, W., Li, Z., Dürango, J. & Kihl, M.
2013/01/01 → 2016/12/31

EFRAIM: Ekosystem för framtidens mediadistribution

Kihl, M.
Swedish Government Agency for Innovation Systems (Vinnova)
2012/09/01 → 2014/12/31

ELLIIT LU P01: WP6 Vehicular communication

Tufvesson, F., Nilsson, M., Nelson, C., Kihl, M., Vlastaras, D., Gustafson, C., Abbas, T., Chen, J., Tärneberg, W. & Chamideh, S.

Celtic Next IMMINENCE: Intelligent Management of next generation Mobile Networks and services

Kihl, M., Tärneberg, W., Fitzgerald, E., Bür, K. & Peng, H.
Swedish Government Agency for Innovation Systems (Vinnova)
2021/07/15 → 2023/03/31

LCCC

Holmqvist, A., Andersson, N., Cervin, A., Mannesson, A., Gattami, A., Ghulchak, A., Papadopoulos, A. V., Rantzer, A., Robertsson, A., Sootla, A., THEORIN, A., Bernhardsson, B., Olofsson, B., Wittenmark, B., Grussler, C., Johnsson, C., Madjidian, D., Johannesson, E., Magnusson, F., Ståhl, F., Como, G., Chasparis, G., Turesson, G., Dressler, I., Åkesson, J., Cho, J. H., Årzén, K., Åström, K. J., Sou, K. C., Mårtensson, K., Berntorp, K., Soltesz, K., Lessard, L., Hast, M., Rönn, M., Ansbjerg Kjær, M., Maggio, M., Kristalny, M., Garpinger, O., From, P. J., Larsson, P., Giselsson, P., Johansson, R., Häggglund, T., Vladimerou, V., Romero Segovia, V., Aurelius, A., Cedersjö, G., Bür, K., Dellkrantz, M., Du, M., Amani, P., Larsson, R., Tärneberg, W., Li, Z., Yin, L., Tufvesson, F., Höst, S., Nilsson, B., Stenström, S., Andersson, J. A., Diehl, S., Dürango, J., Ghazaei Ardakani, M., Forsberg, P., Bengtsson, F., Jörntell, H., Arévalo, C., Führer, C., Andersson, C., Mohammadi, F., Ödling, P., Andersson, M., Kihl, M. & Tunestål, P.
2008/07/01 → 2018/06/30

R2D2: Road to media-aware user-Dependent self-adaptive Networks

Ödling, P. & Kihl, M.
Swedish Government Agency for Innovation Systems (Vinnova)
2009/11/11 → 2012/11/30