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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

**NextG2Com: Nästa generations kommunikations- och beräkningsinfrastrukturer och applikationer**

Kihl, M.

Swedish Government Agency for Innovation Systems (Vinnova): SEK36,000,000.00

2023/11/01 → 2028/12/31

## 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 (SEC4FACTORY)**

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 → 2024/12/31

**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 IMMINECE: Intelligent Management of next generation Mobile Networks and services (IMMINECE)**

Kihl, M., Tärneberg, W., Fitzgerald, E., Bür, K. & Peng, H.  
Swedish Government Agency for Innovation Systems (Vinnova)  
2021/07/15 → 2023/12/31

**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

**NextG2Com: Next Generation Communication and Computational Infrastructures and Applications (NextG2Com)**

Kihl, M., Runeson, P., Schuber, P., Tufvesson, F., Edfors, O., Krueger, V., Söderberg, E., Aminifar, A., Johansson, A., Cai, X., Liu, L., Lau, B. K., Stenmark, M., Topp, E. A., Gehrmann, C., Engström, E., Borg, M., Tärneberg, W. & Johnsson, C.  
Swedish Government Agency for Innovation Systems (Vinnova)  
2024/01/01 → 2028/12/31

**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