



IEEE ComSoc ETC Tactile Internet Sub-Committee

Globecom 2016 Meeting

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Agenda

- ▶ Welcome & Introduction
- ▶ Approval of the Sub-Committee Meeting Minutes (ICC 2016)
- ▶ Updates on the Tactile Internet Activities
- ▶ Discussion on the Logo
- ▶ Updates on the Tactile Internet IEEE standardization activities (Oliver Holland)
- ▶ Teaser Talk by Carlo Fishione (Frank Fitzek)
- ▶ Any other Business

Meeting Highlights of the ICC 2016 Meeting

- ▶ It has been requested to inform the TI-chair about activities, workshops, tutorials etc. to add the information to the website
- ▶ More publicity is requested
- ▶ Total number of subscribers to the mailing list: 120 (It was 75 in June'16! ↑)
- ▶ Discussion on the TI-logo (to be continued at Globecom 2016 meeting)
- ▶ Talks by Mischa Dohler, Frank Fitzek, Oliver Holland

Report of the Chair

► Multiple workshops at flagship conferences

- IEEE ICC 2015: Workshop on "[5G & Beyond – Enabling Technologies and Applications](#)"
- IEEE Globecom 2015: Workshop on "[Ultra-Low Latency and Ultra-High Reliability in Wireless Communications](#)"
- IEEE Globecom 2015: Tutorial on "[5G Tactile Internet: Application, Challenges and First Solutions](#)".
- IEEE WCNC 2016: Workshop on "[IEEE International Workshop on 5G & Beyond – Enabling Technologies and Application with focus on the Tactile Internet & Vertical Industry](#)". Please find here the [workshop programme](#)."
- IEEE Globecom 2016: Workshop on "[Ultra-Reliable and Low-Latency Communications in Wireless Networks \(URLLC\)](#)"
- IEEE Globecom 2016: Workshop on "[Wireless Networking, Control and Positioning for Unmanned Autonomous Vehicles](#)"
- VDE ITG Fachtagung "[5G Mobile Networks – Towards the Tactile Internet](#)"
- IEEE WCNC 2017: Workshop on [5G & Beyond – Enabling Technologies and Applications with focus on the 5G Tactile Internet \(5G TACNET\)](#)"

Report of the Chair

- ▶ Please, link the workshop websites to the TI-committee website so the workshop can be counted to be supported by the TI-committee
- ▶ Special issue in Proceeding of *IEEE* under preparation
 - Please, contact the chair in case of interest for contribution and provide pot. author list and title (plus abstract if applicable)
- ▶ Special issue in IEEE CommMag Communications Standards Supplement under preparation
- ▶ Applied for a Tactile Internet Track within SAC at Globecom 2018
 - Workshops should be merged into this track

Report of the Chair

The screenshot shows a web browser window with the URL ti.committees.comsoc.org. The page header features the IEEE ComSoc logo and the IEEE logo. The main heading is "Tactile Internet Emerging Technical Subcommittee". Below the header is a search bar and a navigation menu with links for Home, Officers, Meetings, Mailing List, Activities, and Standardisation. The main content area starts with a welcome message: "Welcome to Tactile Internet Emerging Technologies Subcommittee". Below this is a small image showing a hand touching a screen with the text "Tactile Internet". The text below the image describes the committee's focus on exploring and elucidating all facets of the next generation of "Tactile Internet" technology, business and societal gaps and challenges. It also mentions that extremely low latency in combination with high availability, reliability and security will define the character of TI. Finally, it references Prof. Dr.-Ing. Dr. h.c Gerhard Fettweis and provides a link to a document: http://download.steinbeis-europa.de/2013-10-29-30_CPS/29102013-cps-fettweis-vodafone.pdf or in the wireless world research forum: http://www.wrrf30.ch/H_files/Themes/wrrf30/wrrf30_documents/Gerhard%20Fettweis%20WWRF5%202013%2004%2024.pdf.

Any feedback?

<http://ti.committees.comsoc.org/>

Report of the Chair

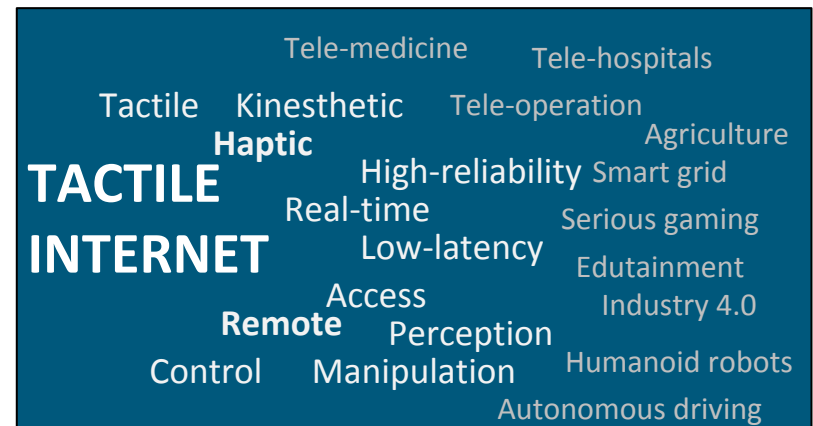
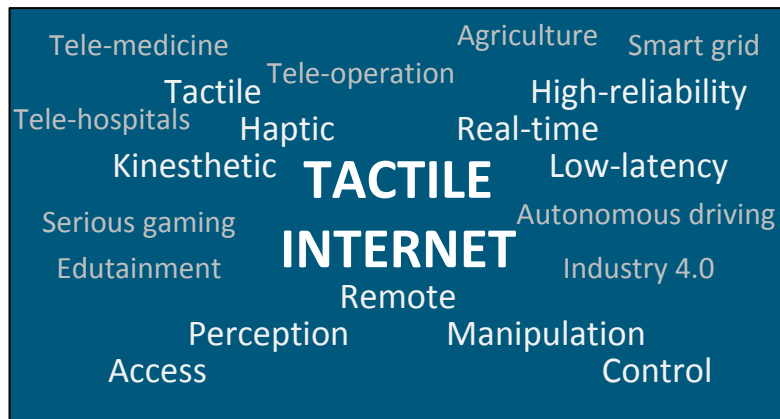
- ▶ Discussed logo at ICC 2016:



- ▶ Mailing list: TactileInternet@COMSOC.ORG

Report of the Chair

- ▶ Proposed logos based on discussions at ICC 2016



- ▶ Any feedback?

Report of the Chair

- ▶ Standardization activities:
- ▶ ETSI: Work item on IPv6 based Tactile Internet within the ISG IPv6
 - Lead by Meryem Simsek and Frank Fitzek
 - Supported Toshiba Research Europe
- ▶ IEEE: Working group on the Tactile Internet continues activities; IEEE P1918.1.1 Haptic Codecs has been accepted by IEEE ComSoc Standards Development Board (SDB)

Tactile Internet Definition

“A network or network of networks for remotely accessing, perceiving, manipulating or controlling real or virtual objects or processes in perceived real time by humans or machines”

IEEE P1918.1

Teaser Talks

- ▶ Carlo Fiscione

- ▶ Oliver Holland: Updates on IEEE P1918.1 Tactile Internet working group

Other Business

- ▶ Annual report submitted to the ETC chair by September 30, 2016
 - Evaluation outcome: Come back in 1 year: positive outlook

- ▶ Suggestions for improvements?

- ▶ Further ideas?