



HAL
open science

Erratum to “Sparse Preamble Design for Polarization Division Multiplexed CO-OFDM/OQAM Channel Estimation”

Nhat-Quang Nhan, Pascal Morel, Stéphane Azou, Michel Morvan, Philippe Gravey, Erwan Pincemin

► **To cite this version:**

Nhat-Quang Nhan, Pascal Morel, Stéphane Azou, Michel Morvan, Philippe Gravey, et al.. Erratum to “Sparse Preamble Design for Polarization Division Multiplexed CO-OFDM/OQAM Channel Estimation”. *Journal of Lightwave Technology*, 2018, 36 (22), pp.5316-5316. 10.1109/JLT.2018.2874573 . hal-01954348

HAL Id: hal-01954348

<https://hal.science/hal-01954348>

Submitted on 13 Dec 2018

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

Erratum to "Sparse Preamble Design for Polarization Division Multiplexed CO-OFDM/OQAM Channel Estimation"

Nhat-Quang Nhan, *Member, IEEE*, Pascal Morel, Stéphane Azou, *Senior Member, IEEE*, Michel Morvan, Philippe Gravey and Erwan Pincemin

In the original paper [1], the sparse preamble channel estimation is investigated for polarization division multiplexed (PDM) Coherent Optical OFDM/OQAM systems, with some comparisons with the interference approximation method (IAM). In our literature overview, we omitted to cite two relevant papers in the wider digital signal processing community. In [2], the IAM channel estimation scheme has been extended to the multiple-input multiple-output (MIMO) case for the first time and various MIMO-IAM preambles are compared with each other for some frequency selective wireless channels. A thorough review of existing preamble structures, and associated channel estimation methods is proposed in [3], with results on mean squared error-optimal sparse preambles. These complementary references may be very helpful for the researcher interested in PDM CO-OFDM systems design, as our work shares some of the features of these two prior contributions.

REFERENCES

- [1] N.-Q. Nhan, P. Morel, S. Azou, M. Morvan, P. Gravey, E. Pincemin, "Sparse Preamble Design for Polarization Division Multiplexed CO-OFDM/OQAM Channel Estimation," *J. Lightw. Technol.*, 36 (13), pp. 2737-2745, 2018.
- [2] E. Kofidis, D. Katselis, "Preamble-based channel estimation in MIMO-OFDM/OQAM systems," in *Proc. IEEE Int. Conf. on Signal and Image Process. Appl. (ICSIPA)*, Kuala Lumpur, Malaysia, 1618 Nov. 2011.
- [3] E. Kofidis, D. Katselis, A. Rontogiannis, and S. Theodoridis, "Preamble-based channel estimation in OFDM/OQAM systems: A review," *Signal Processing*, vol. 93, no. 7, pp. 20382054, July 2013.