Enhanced inter-cell interference coordination for heterogeneous networks in LTE-Advanced: A survey.

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Enhanced Inter-cell Interference Coordination for Heterogeneous Networks in LTE-Advanced: A Survey

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Heterogeneous networks (het-nets) - comprising of conventional macrocell base stations overlaid with femtocells, picocells and wireless relays - offer cellular operators burgeoning traffic demands through cell-splitting gains obtained by bringing users closer to their access points. However, the often random and unplanned location of these access points can cause severe near-far problems, typically solved by coordinating base-station transmissions to minimize interference. Towards this direction, the 3rd generation partnership project Long Term Evolution-Advanced (3GPP-LTE or Rel-10) standard introduces time-domain inter-cell

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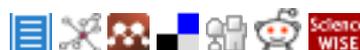
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interference coordination (ICIC) for facilitating
a seamless deployment of a het-net overlay.
This article surveys the key features
encompassing the physical layer, network layer
and back-hauling aspects of time-domain ICIC
in Rel-10.

Comments:	This is a working document describing the Enhanced Inter-cell Interference Coordination (E-ICIC) introduced in LTE-Advanced
Subjects:	**Information Theory (cs.IT)**
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