## **Accepted Manuscript**

Combined arrival-time imaging and time reversal for scatterer identification

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PII: S0045-7825(16)31067-2

DOI: http://dx.doi.org/10.1016/j.cma.2016.08.031

Reference: CMA 11112

To appear in: Comput. Methods Appl. Mech. Engrg.

Received date: 26 January 2016 Revised date: 31 August 2016 Accepted date: 31 August 2016



Please cite this article as: E. Amitt, D. Givoli, E. Turkel, Combined arrival-time imaging and time reversal for scatterer identification, *Comput. Methods Appl. Mech. Engrg.* (2016), http://dx.doi.org/10.1016/j.cma.2016.08.031

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#### **ACCEPTED MANUSCRIPT**

#### Highlights (for review)

### Highlights:

- A new computational technique for scatterer identification is proposed.
- The optimization search space is much reduced compared with Time Reversal alone.
- An improved objective function is devised.
- The performance of the new method is investigated via numerical examples.

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