Multiple Authors

In my `article`, `essay` and `report` LaTeX templates,[1] for the single author scenario, I prefer to place both email and institutional information in a single footnote. This is done with the `\footnote` command—however, when there are several co-authors, this approach might not be feasible. The `\footnote` command suffices when the co-authors have, in addition to different email addresses (which is always the case), different institutional affiliations—for then it is possible to associate an unique footnote with each author.

But other scenarios are possible. For example, an author can have (say) two affiliations, and another one can have only one, which happens to be one of the two affiliations of the first author. To avoid wasting space by writing the same institution's name twice, I deal with this situation in the following manner. First, I separate email and institution: the former goes below the author's name, and the latter in a footnote. Second, I separate producing the footnote *mark*, and the footnote itself. I produce the required footnotes using the `\footnotetext` command, and then produce corresponding marks near the names of the authors to whom they apply, using the `\footnotemark` command.[2] An example will be illuminating.[3] Furthermore, I also want use symbols for these footnotes, because for most document styles, symbol footnotes are unlikely to be used anywhere else in the document body.

The way to split the production of a footnote's mark, and its respective text, is to use specially crafted commands to produce the footnotes' mark and text—commands, moreover, to be used only for author-related information. Here's the code:

```
\newcommand*{\aufnmark}[1][1]{{%
\renewcommand*{\thefootnote}{\fnsymbol{footnote}}%
\footnotemark[#1]}}

\newcommand*{\aufntext}[2][1]{{%
\renewcommand*{\thefootnote}{\fnsymbol{footnote}}%
\footnotetext[#1]{#2}}}
```

`aufnmark` stands for "author footnote mark," and `aufntext` for "author footnote text." In the below example we have three authors: the first affiliated to Institute A and Institute B, and two more, each affiliated to one of the institutes.

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[1] See http://randomwalk.eu/LaTeX/latex-templates/.

[2] This strategy somewhat mimics what I use with `beamer` (presentation template).

[3] For the example documents for `report` and `article` templates, see https://randomwalk. eu/LaTeX/latex-multiple-authors/.

Note: for `report`'s, the `\hspace` command is not needed, as the mark symbols will be properly spaced. However, it is required for `article`'s—otherwise the marks will be displayed one on top of the other. Adjust to your own case as required.

```latex
\author{
  Óscar Pereira\aufnmark[1]\hspace{0.50em}\aufnmark[2]%
  \\{\small\texttt{\{https://, oscar@\}randomwalk.eu}.}
\and
  John Doe\aufnmark[1]\\{\small\texttt{\{https://, john@\}doe.org}.}
\and
  Jane Doe\aufnmark[2]\\{\small\texttt{\{https://, jane@\}doe.org}.}
}%
\aufntext[1]{Inst.\ 1}%
\aufntext[2]{Inst.\ 2}
```

And that's it!